

PROJECT ADMINISTRATION DATA SHEET

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ORIGINAL

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REVISION NO. _____

Project No. E-26-677

DATE: 8/31/81

Project Director: Dr. Bernd Kahn School/~~EES~~ Nuclear Engineering

Sponsor: Environmental Protection Div., Georgia Dept. of Natural Resources

Type Agreement: Contract dated 7/1/81

Award Period: From 7/1/81 To 6/30/82 (Performance) _____ (Reports)

Sponsor Amount: \$70,000 6-30-84 Contracted through:

Cost Sharing: none GTRI/~~EES~~

Title: Analytical Services Related to Environmental Radiological Surveillance and Radionuclide Assessment of Community Water Supplies

ADMINISTRATIVE DATA

OCA CONTACT William F. Brown x4820

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2) Sponsor Admin./Contractual Contact: Mr. F. Steve Ivey, Management Analyst, Georgia Dept. of Natural Resources, Environmental Protection Division, 47 Trinity Avenue, S. W., Atlanta, GA 30334 (404) 656-7416

Reports: See Deliverable Schedule Security Classification: Unclassified

Defense Priority Rating: none

RESTRICTIONS

See Attached -- Supplemental Information Sheet for Additional Requirements

Travel: Foreign travel must have prior approval - Contact OCA in each case. Domestic travel requires sponsor approval where total will exceed greater of \$500 or 125% of approved proposal budget category.

Equipment: Title vests with sponsor

COMMENTS:



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SPONSORED PROJECT TERMINATION/CLOSEOUT SHEETDate 9/19/85Project No. E-26-677School/~~GTX~~ NEIncludes Subproject No.(s) N/AProject Director(s) Bernard KahnGTRC /~~XH~~Sponsor Environmental Protection Division , GA dept. of Natural ResourcesTitle Analytical Services Related to Environmental Radiological Surveillance and
Radionuclide Assessment of Community Water SuppliesEffective Completion Date: 6/30/84 (Performance) 6/30/84 (Reports)

Grant/Contract Closeout Actions Remaining:

☐ None* ☐ Final Invoice or Final Fiscal Report☐ Closing Documents☐ Final Report of Inventions☐ Govt. Property Inventory & Related Certificate☐ Classified Material Certificate☐ Other _____* Accounting, please
verify that all billing
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ATLANTA, GEORGIA 30332

ENVIRONMENTAL RESOURCES CENTER
(404) 894-2375

BIOENGINEERING CENTER
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M E M O R A N D U M

DATE: August 24, 1981

TO: Mr. William Cline, Program Manager
Environmental Radiation Program, EPD, DNR

FROM: Bernd Kahn, Director
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the Environmental
Radiation Laboratory, July 1981

The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental monitoring at nuclear facilities by DNR staff	Tables 1-12
Monitoring by DHR staff	Tables 13-14
Monitoring by DNR staff at other locations	Tables 15-19
Monitoring by DNR staff of Community Water Systems	Tables 20-23
Monitoring fallout	Tables 24-25

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity attributed to the facility:

Tables 10 and 11, H-3 in water supply downstream from the Savannah River Plant and rainwater samples collected in the plant environs.

All other radionuclides in Tables 1-12 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

The water samples from private wells in Denton for which gross activity and Ra-226 levels were reported last month were analyzed for Ra-228 if the previously reported levels were elevated (see Table 13). Four of the samples exceed total radium levels of 5 pCi/L. A sample of "Saf-T-Blast" submitted by DHR (Table 14) contained somewhat elevated levels of Ra-226. Fission and activation products at elevated levels were found in samples of soil, grass, lint, and water collected at Southern Space (Tables 15-18), but no elevated levels of radioactivity were in air samples collected for brief periods (Table 19).

Additional community water systems are being analyzed for compliance with radioactivity limits on the basis of quarterly composites (Table 20). Three of the samples screened by gross alpha particle activity measurement are being analyzed for radium levels because the gross alpha values exceeded 5 pCi/L. Two community water systems that had gross alpha activity values equal to or above 5 pCi/L in the quarterly composites were checked by analyzing grab samples (Table 21). The most recent values are consistent with those of the quarterly composites. Grab samples of newly developed community water systems analyzed for gross alpha particle activity (Table 22) showed no elevated levels; a sample that previously had shown high alpha activity, however, was found to contain 6 pCi/l Ra-226 + Ra-228 (Table 23).

Air filters that collect airborne particles for 2-week periods at Atlanta still show the presence of fallout with intermediate half lives, such as Zr-Nb-95, although somewhat shorter-lived Ru-103 and Ce-141 are no longer seen in the most recent filters (Table 24). No fallout radionuclides were detected in rainwater at the indicated detection limits (Table 25).

A report of the results of the radioactivity analyses performed for community water systems in 1978-1980 was prepared. It was presented in short form at the Health Physics Society and will be submitted for publication.

The results of the Fifth International Environmental Dosimeter Intercomparison Project, undertaken last fall, were reported. The values are as follows:

<u>Exposure type</u>	<u>Expected value</u>	<u>Our value</u>	<u>Deviation, percent</u>
Environmental	30.0 mR	29.8 mR	0.7
Cs-137 initial	75.2	60	20.
Cs-137 final	88.4	74	16.

We are now checking why the Cs-137 exposure rates obtained by us are low to the extent shown.

Table 1
Radioactivity Levels in Air Samples from the
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m³</u>	<u>Radionuclide concentration, pCi/m³</u>	
				<u>I-131</u>	<u>Gross beta</u>
B 383*	Cartridge	Substation	272	<0.02	---
B 384*	Filter paper	Substation	272	---	0.04
B 385*	Cartridge	Plant	272	<0.01	---
B 386*	Filter paper	Plant	272	---	0.02

Notes: 1. Samples were collected on July 16, 1981, after 7-day sampling.
2. No other photon-emitting radionuclides were detected in the cartridges.

Table 2

Radioactivity Levels in Milk Samples
from the Environment in Georgia of the
Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
F 308*	Jerry Mock	<5	<2
F 309*	A. B. White	<5	<2

-
- Notes: 1. Samples had no collection date, but were received at the laboratory on April 24, 1981.
2. Values for Cs-137, K, and H-3 were given in the Monthly Report for April, 1981, Table 13.

Table 3

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m³</u>	<u>Radionuclide concentration, pCi/m³</u>	
				<u>I-131</u>	<u>Gross beta</u>
F 322*	Cartridge	Blakely Water Tower	1056	<0.004	---
F 323*	Paper filter	Blakely Water Tower	1056	---	0.04
F 324*	Cartridge	Great Southern Airport	1044	<0.004	---
F 325*	Paper filter	Great Southern Airport	1044	---	0.05

-
- Notes: 1. Samples were collected on July 9, 1981, after 7-day sampling.
2. No other photon-emitting radionuclides were detected in the cartridges.

Table 4

Radioactivity Levels in Fish Samples from
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>Cs-137 concentration, pCi/kg</u>
F 326*	Common carp	Downstream CH.R.M. 40.8-41.3	<20
F 327*	Common carp	Upstream CH.R.M. 47.5-47.8	21
F 328*	Largemouth bass	Upstream CH.R.M. 47.5-47.8	30
F 329*	Largemouth bass	Downstream CH.R.M. 40.8-41.3	160

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- Notes: 1. Samples were collected in the Chattahoochee River on April 27-28, 1981. (Samples were received on July 14, 1981.)
2. No other man-made photon-emitting radionuclides were detected.

Table 5

Radioactivity Levels in Soil Samples from the
Environment in Georgia of the Farley Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg					
		Zr-95	Nb-95	Cs-137	K-40	Ra-226	Ra-228
F 330	TLD #1	79	200	46	300	500	600
F 331	TLD #3	<70	140	130	500	800	400
F 332	TLD #11	82	220	270	500	300	600
F 333	TLD #12	50	200	260	800	900	800
F 334	TLD #19	<70	<80	330	900	1,000	1,000
F 335	TLD #25	<70	120	<50	200	700	600

- Notes: 1. Samples were collected July 21-22, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 6

Radioactivity Levels in Corn Samples from the
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, pCi/kg</u>
F 336	TLD #3	35
F 337	TLD #21	<30

-
- Notes: 1. Samples were collected on July 21, 1981.
2. No other man-made photon-emitting radionuclides
were detected.

Table 7

Radioactivity Levels in Grass Samples from the
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>			
		<u>Zr-95</u>	<u>Nb-95</u>	<u>Cs-137</u>	<u>Be-7</u>
F 338	TLD #1	<80	<50	<50	1,600
F 339	TLD #11	<80	110	<50	1,300
F 340	TLD #12	<80	120	<50	820
F 341	TLD #19	<80	140	<50	600
F 342	TLD #24	<80	<50	<50	<400
F 343	TLD #25	<80	170	47	2,100

-
- Notes: 1. Samples were collected on July 21-22, 1981.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 8

Radioactivity Levels in Water Samples from the
Environment in Georgia of the Farley Nuclear Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l
F 344	TLD #1 groundwater	<2	4 ± 2	<200
F 345	Cedar Springs PO groundwater	<4	2 ± 2	<200
F 346	Odom's Grocery groundwater	<2	<2	<200
F 347	Hilton Grocery groundwater	<4	2 ± 2	<200
F 348	Columbia Lock & Dam; groundwater	<3	4 ± 2	<200
F 349	Chattahoochee R at US 84; downstream	<3	3 ± 2	200 ± 100
F 350	Chattahoochee R at Great Southern Paper Co.; down- stream from river pumping station	3 ± 2	4 ± 2	<200
F 351	Chattahoochee R at Alabama boat launch; downstream	<3	3 ± 2	<200

Note: Samples were collected on July 21-22, 1981.

Table 9

Radioactivity Levels in Rainwater Samples from the
Environment in Georgia of the Oconee Nuclear Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l
LH 90	TLD #7 - collected August 18-September 18, 1980	2 ± 2	3 ± 2	<200
LH 91	TLD #7 - collected February, 1980	2 ± 2	5 ± 2	<200

-
- Notes: 1. Sample were received on July 17, 1981.
2. No man-made photon-emitting radionuclides were detected (Cs-137 <20 pCi/l).

Table 10

Radioactivity Levels in Water Sample from the
Environment in Georgia of the Savannah River Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l	I-131 pCi/l
SR 301	Port Wentworth I & D Water Supply	<2	5 ± 2	3,200 ± 200	<0.1

Notes: 1. Sample was a 2-day composite collected July 7-9, 1981.
2. No man-made photon-emitting radionuclides were detected
(Cs-137 <10 pCi/l).

Table 11

Radioactivity Levels in Water Samples from the
Environment in Georgia of the Savannah River Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l	I-131 pCi/l
SR 302	River #2	<2	5 ± 2	<200	<0.1
SR 303	River #10	2 ± 2	5 ± 2	3,700 ± 200	0.4 ± 0.1
SR 304	Waynesboro rain- water	---	---	2,500 ± 200	---
SR 305	Rt 301 rainwater	---	---	500 ± 200	---
SR 306	S Richmond rainwater	---	---	3,000 ± 200	---
SR 307	Perkins rainwater	---	---	1,200 ± 200	---
SR 308	Rt 301 rainwater	---	---	300 ± 200	---
SR 309	Augusta rainwater	---	---	1,500 ± 200	---
SR 310	Waynesboro rainwater	---	---	1,300 ± 200	---
SR 311	Perkins rainwater	---	---	500 ± 200	---
SR 312	Augusta rainwater	---	---	700 ± 200	---
SR 313	S Richmond rain- water	---	---	400 ± 200	---

-
- Notes: 1. Samples were collected on June 18-July 1 (SR 304-307, 309), July 1-16 (SR 308, 310-313), and July 14 (SR 302, 303).
 2. No man-made photon-emitting radionuclides were detected in samples SR 302 and 303 (Cs-137 <20 pCi/l).

Table 12

Radioactivity Levels in Milk Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>
SR 314	Boyce Dairy	--lost--		<10	1.7	<200
SR 315	Dixon Dairy	<5	2	7	1.5	500 ± 100

Notes: 1. Samples were collected on July 16, 1981
2. No I-131 (<10 pCi/l) or Ba-140 were detected.

Table 13
Radioactivity Levels in Private Well Water
Samples from Denton

<u>Sample No.</u>	<u>Location</u>	<u>Ra-228, pCi/l</u>
S 1516	Mrs. Ora Kight	7
S 1517	Excelsior School	<1
S 1519	Mr. Thomas Tate	<1
S 1520	Mr. Artie Sinclair	<1

-
- Notes:
1. Results for gross alpha particle activity and Ra-226 concentrations were given in the Monthly Report for June, 1981, Table 30.
 2. Samples were collected on June 1, 1981 by DHR staff.
 3. Sample S 1516 was filtered before analysis.
 4. Samples S 1516, S 1517, S 1519 and S 1520 exceed radium levels of 5 pCi/l.

Table 14

Radioactivity Levels in "Safe-T-Blast" Used by Georgia
DOT at Sidney Lanier Bridge, Brunswick

<u>Sample No.</u>	<u>Radionuclide concentration, pCi/kg</u>		
	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
S 1566	16,000	5,200	1,800

-
- Notes: 1. Samples was submitted by Jerry Morris, DHR,
Brunswick; collection date was not given.
2. No man-made photon-emitting radionuclides were
detected (Cs-137 <10 pCi/kg).

Table 15
Radioactivity Levels in Soil Samples from the
Southern Space Laundry, Macon

Sample No.	Location	Radionuclide concentration, pCi/kg						
		Mn-54	Co-60	Zn-65	Nb-95	Sb-125	Cs-134	Cs-137
S 1572	Houston Ave. parking lot	200	5,200	2,200	300	110	2,100	3,300
S 1573	TLD #3	2,300	93,000	6,500	720	3,600	4,700	15,000

Note: Samples were collected on July 14, 1981.

Table 16

Radioactivity Levels in Lint Sample from the
Southern Space Laundry, Macon

Sample No.	Radionuclide concentration, pCi/g											
	Cr-51	Mn-54	Co-58	Co-60	Zn-65	Zr-95	Nb-95	Sn-113	Sb-125	Cs-134	Cs-137	Ce-144
S 1574	1,600	2,400	510	32,000	29,000	16,000	33,000	760	1,300	3,900	7,900	670

Note: Sample was collected on July 14, 1981.

Table 17

Radioactivity Levels in Water Sample from
Southern Space Laundry, Macon

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>Radionuclide concentration, pCi/l</u>						
				<u>H-3</u>	<u>Mn-54</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Zn-65</u>	<u>Cs-134</u>	<u>Cs-137</u>
S 1575	Holding tank	106	2.1 E5	<3,000	2,500	960	1.2 E4	3.8 E4	1.1 E5	1.4 E5

Notes: 1. Samples was collected on July 14, 1981.
2. Notation 2.1 E5 means 210,000.

Table 18

Radioactivity Levels in Grass Samples from the
Southern Space Laundry, Macon

Sample No.	Location	Radionuclide concentration, pCi/kg						
		Co-60	Zn-65	Zr-95	Nb-95	Cs-134	Cs-137	Be-7
S 1581	TLD #3	120	290	54	57	150	280	300
S 1582	Houston Avenue parking lot	240	6,000	<100	<70	1.6 E4	2.5 E4	1,500

Note: Samples were collected July 14, 1981.

Table 19

Radioactivity Levels in Air Filters
from Southern Space Laundry, Macon

<u>Sample No.</u>	<u>Location</u>	<u>Volume, m³</u>	<u>Cs-137 concentration, pCi/m³</u>
S 1598	front entrance	20	<0.1
S 1599	parking lot	20	<0.1

-
- Notes: 1. Samples were collected on July 14, 1981 for 20 minutes.
2. No other man-made photon-emitting radionuclides were detected (note high MDL due to brief collection time).

Table 20

Gross Alpha, Ra-226 and Ra-228, Activity in Georgia Community
Water Systems -- One-Year Quarterly Composites

Sample No.	Location	ID #	Gross alpha, pCi/l	Ra-226, pCi/l	Ra-228, pCi/l
WS 1621	Martinez Water Assoc.	303603737	11 ± 2	in process	<1
WS 1624	Waters MHP	411018067	8 ± 1	2.0	<1
WS 1627	City of Allentown	315813601	10 ± 2	0.9	2
WS 1631	Oak View	311323065	<1		
WS 1632	Durwood S/D	301315294	<2		
WS 1633	Forest Hills S/D	301623401	<1		
WS 1634	Bon Air Apartments	41512434	<1		
WS 1635	Lakeside Estates	401602364	<1		
WS 1636	Evan's TP #1	303423263	<2		
WS 1637	Brunswick/I-95 Inter- change	406327079	<1		
WS 1638	Bulloch County Cor- rectional Inst.	301619589	<1		
WS 1639	Hog Hammock	309823144	2 ± 2		
WS 1640	Gardenvue Apartments	415124452	<1		
WS 1641	Fort Stewart Army	308922181	<2		
WS 1642	Bellaire Village S/D	302523337	<2		
WS 1643	Shady Acres MHP	302522954	<2		
WS 1644	Lee's Riverside Estates	301623775	<2		
WS 1645	Nelson Law Water System	401634482	<2		
WS 1646	Wayne Substance Abuse Center	415124504	<2		
WS 1647	Foss MHP	302522750	<2		
WS 1648	Morgan MHP	302514003	<2		
WS 1649	Cannon Bluff Water Assoc.	309821430	<2		
WS 1650	June Berrier S/D	401602267	<2		
WS 1651	Sportsman Cove S/D	409215517	<2		
		409229873			
WS 1652	Valdosta Country Club	409215517	2 ± 1		
WS 1653	Moody AFB	409215058	<1		
WS 1654	Sugar Creek Textile	309209221	<2		
WS 1655	Barretts MHC (Sandylane)	309221845	2 ± 1		
WS 1656	DeMott S/D	303523701	<2		
WS 1657	Crisp County Farm	304004078	<2		
WS 1658	Chattahoochee Plantations	311822049	<1		
WS 1659	Green Oaks MH	409227965	<1		
WS 1660	Mulls MHP	409227992	<2		
WS 1661	Post Trailer Park	310621599	<1		
WS 1662	Flintwood S/D	304321801	<1		
WS 1663	Bib Mfg. Plt. Laurel	313311710	3 ± 1		
WS 1664	Oaklane S/D	313623576	2 ± 1		
WS 1665	USMC Logistics	304722246	<2		

Note: Uranium analyses are in process for WS 1621, WS 1624, and WS 1627.

Table 21

Gross Alpha Activity and Radium Concentrations in Georgia Public
Water Supplies -- Grab Samples of Supplies for which
Annual Composites had Elevated Levels

<u>Sample No.</u>	<u>Location</u>	<u>Collection date, 1981</u>	<u>Gross alpha, pCi/l</u>	<u>Ra-226, pCi/l</u>
WX 478	Town of Nicholls	June 30	3 ± 1	---
WX 481	City of Enigma	Jan 20	7 ± 3	8.0

Table 22

Gross Alpha Activity in New Community Water Systems

<u>Sample No.</u>	<u>Location</u>	<u>Date Collected</u>	<u>Date Received</u>	<u>Gross alpha, pCi/l</u>
WX 473	McIntosh System Well #1	6/30/81	7/9/81	<3
WX 474	McIntosh System Well #2	7/6/81	7/9/81	<3
WX 475	Hamilton MHP #4 Jackson Co.; Well #2	7/9/81	7/15/81	<2
WX 476	Hamilton MHP #4 Jackson Co.; Well #1	7/9/81	7/15/81	<2
WX 477	Bear Creek S/D Colquitt Co.; Well #1	7/8/81	7/15/81	3 ± 1
WX 479	McIntosh Water System Well #3	7/14/81	7/16/81	<1
WX 480	Seminole State Park #312511216	9/18/80	7/17/81	<2
WX 482	Campbell Water Supply Dougherty Co.	3/5/81	7/17/81	<1
WX 483	City of Luthersville	7/15/81	7/17/81	2 ± 1
WX 484	Callaway Gardens	not given	7/21/81	<2
WX 485	Green Tree Acres Barrow Co.; Well #2	7/19/81	7/23/81	<1
WX 486	Town of Mt. Airy #306806809; Well #4	7/23/81	7/29/81	<1

Table 23

Ra-226 and Ra-228 Concentrations in New Community Water Systems

<u>Sample No.</u>	<u>Location</u>	<u>Date Collected</u>	<u>Date Received</u>	<u>Gross alpha, pCi/l</u>	<u>Ra-226, pCi/l</u>	<u>Ra-228, pCi/l</u>
WX 471	City of Dawsonville Well #3	6/23/81	6/29/81	18 \pm 3	3.3	3

Table 24

Fallout from Chinese Atmospheric Nuclear Test of
October 16, 1980, Airborne Particles - State Building Samples

Sample No.	Sample date, 1981	Gross beta, pCi/m ³	Radionuclide concentration, fCi/m ³							
			Be-7	Zr-95	Nb-95	Ru-103	Ru-106	Cs-137	Ce-141	Ce-144
S 1565	June 26 - July 6	0.09	41	<1	<1	2	7	<1	<1	10
S 1580	July 6 - 21	0.08	34	2	4	<1	<2	<1	<1	3
S 1604	July 21 - August 3	0.04	38	2	4	<1	<2	<1	<1	3

-
- Notes: 1. Gross beta activity was measured 6 hours after collection and includes Rn-220 daughters. Be-7 is also of natural origin. Among the shorter-lived fission products that were searched for are I-131 and Ba-140.
2. The filters are 12.5-cm-dia. charcoal-impregnated pads.

Table 25

Fallout from Chinese Atmospheric Nuclear Test
in Rainwater

<u>Sample No.</u>	<u>Sampling date, 1981</u>	<u>Location</u>	<u>Gross beta, pCi/l</u>	<u>Fission products concentration, pCi/l</u>
S 1567	July 13	Health Building	14 ± 3	<10

-
- Notes: 1. The radionuclides listed in Table 24 were measured; none were found at the indicated minimum detectable level.
2. A sample of 500 ml was analyzed.

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205 Old Civil Engineering Building

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M E M O R A N D U M

DATE: September 23, 1981

TO: Mr. William Cline, Program Manager
Environmental Radiation Program, EPD, DNR

FROM: Bernd Kahn, Director *Bernd Kahn*
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the Environmental
Radiation Laboratory, August 1981

The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental monitoring at nuclear facilities by DNR staff	Tables 1-22
Monitoring by DNR staff at other locations	Tables 23-25
Monitoring by DHR staff	Table 26
Monitoring by DNR staff of Community Water Systems	Tables 27-28
Monitoring fallout	Table 29
TLD data	Table 30

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity attributed to the facility:

Tables 18 and 20, H-3 was in a water supply downstream from the Savannah River Plant and in rainwater samples collected in the Plant environs. In addition, elevated levels of Cs-137 that may be from either the facility or fallout were found in 1 sample of grass (Table 3) near the Hatch Nuclear Plant, and 1 sample of sediment (Table 21) near the Savannah River Plant.

All other radionuclides in Tables 1-22 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

In additional samples collected at the Southern Space Laundry (see Monthly Report for July 1981), radioactivity due to effluents was found in water and on smears (see Tables 23 - 24). No activity was on smears collected at two other locations (Tables 25 - 26).

Gross alpha activity in excess of 5 pCi/l in samples of annual composites from 3 community water systems was not accompanied by elevated

Mr. William Cline
August Monthly Report

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radium levels (Table 27). Among first samples of new community water systems, two had gross alpha activities in excess of 5 pCi/l, but radium levels were below 5 pCi/l (Table 28).

Filters that collect airborne particles for 2-week periods in Atlanta show barely detectable levels of fallout attributed to the most recent reported atmospheric nuclear test, by China on October 16, 1980 (Table 29).

External radiation measurements with thermoluminescent dosimeters at four nuclear facilities in the state are presented in Table 30. These are the initial results of the computer program for reporting the data.

Table 1

Radioactivity Levels in Soil Samples from
the Environment of the Hatch Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg					
		Zr-95	Nb-95	Cs-137	K-40	Ra-226	Ra-228
B 387	TLD #2	<70	74	100	1,300	1,500	1,200
B 388	TLD #12	<70	120	250	700	1,100	900
B 389	TLD #19	88	200	520	2,700	600	400
B 390	TLD #20	<70	<40	250	400	600	600
B 391	TLD #22	<70	<40	57	2,000	500	400
B 392	TLD #28	<70	120	210	3,200	1,200	1,400
B 393	TLD #44	<70	<40	110	400	<200	<200
B 394	Near Altamaha River, downstream	<70	<40	120	7,900	1,000	1,400

-
- Notes: 1. Samples were collected August 5, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 2

Radioactivity Levels in Sediment Samples from
the Environment of the Hatch Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg				
		Nb-95	Cs-137	K-40	Ra-226	Ra-228
B 395	Altamaha R., downstream	<30	<20	4,300	<200	<200
B 396	Altamaha R., downstream	<30	<20	3,700	<200	<200
B 417	50 yds downstream of Hwy 1 bridge; Toombs County	97	<20	4,500	400	200
B 418	500 yds downstream of Plant Hatch discharge; Appling County	58	<20	4,300	<200	<200
B 419	8 mi downstream of Hwy 1; Appling County	60	28	4,200	200	200

-
- Notes: 1. Samples No. B 395 and 396 were collected August 5, 1981; others were collected August 12, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 3

Radioactivity Levels in Grass Samples from
the Environment of the Hatch Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg		
		Nb-95	Cs-137	Be-7
B 397	TLD #2	43	39	680
B 398	TLD #12	47	34	610
B 399	TLD #19	<40	33	<400
B 400	TLD #20	52	<30	1,000
B 401	TLD #22	39	<30	880
B 402	TLD #28	83	80	740
B 403	TLD #44, Plot 1	<40	1,500	710
B 404	TLD #44, Plot 2	26	36	930
B 405	Near Altamaha R., downstream	<40	83	410

- Notes: 1. Samples were collected on August 5, 1981.
2. No other man-made photon-emitting radionuclides were detected.
Be-7 is formed in nature.

Table 4

Radioactivity Levels in Water Samples from
the Environment of the Hatch Nuclear Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l	I-131, pCi/l
B 406	Dairy Queen, Baxley	2 ± 1	3 ± 2	<200	---
B 407	TLD #18, Cato Enterprises	2 ± 1	3 ± 2	<200	---
B 408	TLD #18; Dennis Grocery	<2	2 ± 1	<200	---
B 409	TLD #22; Deen's Landing	3 ± 1	<2	<200	---
B 410	TLD #28	<2	4 ± 1	<200	---
B 411	TLD #22; Altamaha R., upstream	<1	3 ± 2	<200	<0.1
B 412	Altamaha R., downstream	<2	3 ± 2	<200	<0.1

-
- Notes: 1. Samples are composites collected August 5, 1981.
2. Samples B 411 and B 412 are surface waters; all others are groundwaters.

Table 5

Radioactivity Levels in Air Samples from the
Environment of the Hatch Nuclear Plant

Sample No.	Sample type	Location	Volume, m ³	Radionuclide concentration, pCi/m ³	
				I-131	Gross beta
B 413*	Cartridge	Substation	273	<0.02	---
B 414*	Filter paper	Substation	273	---	0.009
B 415*	Cartridge	Plant	274	<0.02	---
B 416*	Filter paper	Plant	274	---	0.005

- Notes: 1. Samples were collected on August 12, 1981, after 7-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 6

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Farley Nuclear Plant

Sample No.	Sample type	Location	Volume, m ³	Radionuclide concentration, pCi/m ³	
				I-131	Gross beta
F 352*	Cartridge	Blakely Water Tower	1064	<0.01	---
F 353*	Paper filter	Blakely Water Tower	1064	---	0.011
F 354*	Cartridge	Great So. Airport	1058	<0.01	---
F 355*	Paper filter	Great So. Airport	1058	---	0.011

- Notes:
1. Samples were collected on August 13, 1981, after 7-day sampling.
 2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 7

Radioactivity Levels in Sediment Samples from the
Environment in Georgia of the Farley Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg			
		Cs-137	K-40	Ra-226	Ra-228
F 356	Chattahoochee River 2700 ft downstream from Andrews Lock and Dam	<40	3,000	2,000	4,400
F 357	Chattahoochee River 500 ft downstream from Plant Farley discharge; Alabama side	<40	2,400	1,500	1,800
F 358	Chattahoochee River across from Great Southern Paper Co. fuel barge dock; Alabama side	<40	4,800	800	1,200

-
- Notes: 1. Samples were collected August 27, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 8

Radioactivity Levels in Soil Samples from
the Environment of the Georgia Tech Research Reactor Center

Sample No.	Location	Radionuclide concentration, pCi/kg					
		Zr-95	Nb-95	Cs-137	K-40	Ra-226	Ra-228
GT 89	TLD #2	<120	150	260	14,700	1,400	1,000
GT 90	TLD #5	<120	190	390	16,900	2,500	1,200
GT 91	TLD #7	210	480	320	13,800	1,400	800
GT 92	TLD #8	120	340	1,100	18,600	1,500	800
GT 93	TLD #11	<120	<80	660	13,300	1,400	1,400

Notes: 1. Samples were collected on August 20, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 9

Radioactivity Levels in Grass Samples from the
Environment of the Georgia Tech Research Reactor Center

Sample No.	Location	Radionuclide concentration, pCi/kg		
		Nb-95	Cs-137	Be-7
GT 94	TLD #2	44	<30	670
GT 95	TLD #5	46	<30	1,200
GT 96	TLD #7	<40	<30	610
GT 97	TLD #8	89	<30	920
GT 98	TLD #11	<40	<30	790

-
- Notes: 1. Samples were collected on August 20, 1981.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 10

Radioactivity Levels in Forest Litter Samples from
the Environment of the Georgia Tech Research Reactor Center

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>					
		<u>Zr-95</u>	<u>Nb-95</u>	<u>Ru-106</u>	<u>Cs-137</u>	<u>Ce-144</u>	<u>Be-7</u>
GT 99	TLD #6	240	620	<300	120	<200	2,900
GT 100	TLD #8	580	1,500	810	370	3,200	5,400

-
- Notes: 1. Samples were collected on August 20, 1981.
2. No other man-made photon-emitting radionuclides were detected.
Be-7 is formed in nature.

Table 11

Radioactivity Levels in Waste Water at the
Georgia Tech Research Reactor Center

<u>Sample No.</u>	<u>Radioactivity concentration, pCi/l</u>						
	<u>Gross alpha</u>	<u>Gross beta</u>	<u>H-3</u>	<u>Co-60</u>	<u>Sr-89</u>	<u>Sr-90</u>	<u>Cs-137</u>
GT 101	<4	85 \pm 10	130,000 \pm 800	20	in process		62

Note: Sample was collected on August 20, 1981 from the liquid waste tank.

Table 12

Radioactivity Levels in Soil Samples from
the Environment of the King's Bay Submarine Base

Sample No.	Location	Radionuclide concentration, pCi/kg				
		Nb-95	Cs-137	K-40	Ra-226	Ra-228
KB 112	#1, North River	75	200	1,200	1,100	700
KB 113	#2, Crooked River	<40	99	1,200	300	400

- Notes: 1. Samples were collected on August 14, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 13

Radioactivity Levels in Grass Samples from the
Environment of the King's Bay Submarine Base

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>		
		<u>Nb-95</u>	<u>Cs-137</u>	<u>Be-7</u>
KB 114	N. River Road	81	230	2,200
KB 115	Crooked River	38	250	700

-
- Notes: 1. Samples were collected on August 14, 1981.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 14

Radioactivity Levels in Water Samples from the
Environment of the King's Bay Submarine Base

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l
KB 116	Crooked River boat ramp; surface water	<24	208 ± 53	<200
KB 117	TLD #8; N River surface water	<30	291 ± 57	<200
KB 118	Crooked River boat ramp faucet; ground- water	<3	4 ± 4	<200
KB 119	Service station on Hwy 17 across from GA Pac. log yard; groundwater	4 ± 3	<6	<200

-
- Notes: 1. Samples were collected on August 14, 1981.
2. Gross beta activity in samples KB 116 and 117 is elevated because of K-40 in sea water; "less than" gross alpha values in these samples are high because only small volumes (10 ml) could be used due to salt content.

Table 15

Radioactivity Levels in Soil Samples from
the Environment in Georgia of the Sequoyah Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg				
		Nb-95	Cs-137	K-40	Ra-226	Ra-228
SQ 43	State Bkg #14	160	<40	27,900	1,700	1,800
SQ 44	TLD #3	<40	<40	7,100	1,200	1,000
SQ 45	TLD #4	210	190	5,100	200	300
SQ 46	TLD #5	110	100	10,100	1,200	600
SQ 47	TLD #6	<40	<40	7,300	1,000	600
SQ 48	TLD #9	<40	680	6,500	1,200	1,100
SQ 49	TLD #11	<40	<40	7,100	700	600
SQ 63	State Bkg #15	240	380	11,400	1,200	1,200

Notes: 1. Samples were collected on August 18, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 16

Radioactivity Levels in Grass Samples from
the Environment in Georgia of the Sequoyah Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg				
		Zr-95	Nb-95	Cs-137	Ce-144	Be-7
SQ 50	State Bkg #14	120	300	32	560	2,200
SQ 51	State Bkg #15	<60	<30	<30	<200	970
SQ 52	TLD #3	<60	<30	<30	<200	800
SQ 53	TLD #4	<60	160	<30	290	1,600
SQ 54	TLD #5	<60	46	<30	<200	870
SQ 55	TLD #6	82	140	<30	220	1,500
SQ 56	TLD #9	71	140	<30	370	2,100
SQ 57	TLD #10	<60	66	<30	<200	1,400
SQ 58	TLD #11	<60	78	<30	<200	910

-
- Notes: 1. Samples were collected on August 18, 1981.
 2. No other man-made photon-emitting radionuclides were detected.
 Be-7 is formed in nature.

Table 17

Radioactivity Levels in Water Samples from the
Environment in Georgia of the Sequoyah Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
SQ 59	GA Welcome Center at I-75	<2	<3	<200
SQ 60	TLD #9; across from Keith's Game Room	<3	<6	<200
SQ 61	Anggie's Store	<1	4 ± 2	<200
SQ 62	Rossville City water; Shoney's	<1	2 ± 2	<200

Notes: 1. Samples were collected on August 18, 1981.
2. All samples are groundwater samples.

Table 18

Radioactivity Levels in Water Sample from the
Environment in Georgia of the Savannah River Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l	I-131 pCi/l
SR 316	Port Wentworth I & D Water Supply	<1	4 ± 2	3,100 ± 200	<0.1

- Notes: 1. Sample was collected August 3-11, 1981.
2. No man-made photon-emitting radionuclides were detected (Cs-137 <20 pCi/l).

Table 19

Radioactivity Levels in Milk Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>
SR 317	Boyce Bros. Waynesboro	<5	2	<10	1.5	<200

-
- Notes: 1. Sample was collected on August 20, 1981.
2. No I-131 (<10 pCi/l) or Ba-140 were detected.

Table 20

Radioactivity Levels in Water Samples from the
Environment in Georgia of the Savannah River Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l	I-131, pCi/l
SR 318	River #2	<1	3 ± 2	<200	<0.1
SR 319	River #10	<1	2 ± 2	$2,850 \pm 200$	<0.1
SR 320	Augusta rainwater	---	---	600 ± 200	---
SR 321	Perkins rainwater	---	---	<200	---
SR 322	Waynesboro rainwater	---	---	400 ± 200	---
SR 323	Waynesboro rainwater	---	---	<200	---
SR 324	Augusta rainwater	---	---	<200	---
SR 325	Hwy 301 rainwater	---	---	200 ± 200	---
SR 326	Perkins rainwater	---	---	900 ± 200	---
SR 327	S Richmond rainwater	---	---	200 ± 200	---
SR 328	Hwy 301 rainwater	---	---	<200	---

Note: Samples were collected on August 11, 1981 (SR 318-319), and July 30 - August 13 (SR 320-328).

Table 21

Radioactivity Levels in Sediment Samples from the
Environment in Georgia of the Savannah River Plant

Sample No.	Location	Radionuclide concentration, pCi/kg			
		Cs-137	K-40	Ra-226	Ra-228
SR 329	Savannah River, 700 yds downstream from New Savan- nah Bluff Lock & Dam; SC side	<20	11,900	600	600
SR 330	Savannah River, 200 yds upstream from Hancock Landing; GA side	<20	3,500	600	500
SR 331	Savannah River, 200 yds downstream from Lower Three Runs Creek; SC side	1,300	11,600	1,000	800

-
- Notes: 1. Samples were collected on August 19, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 22

Radioactivity Levels in Waste Water Sample from the
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
SR 254, 255 & 292	I & D Water Supply, Port Wentworth	<5	<2

-
- Notes: 1. A composite was prepared using equal amounts of samples SR 254, 255 and 292.
2. These samples were collected in April, May and June 1981, respectively. Other results for these samples are given in the Monthly Reports for April, May and June, 1981.

Table 23

Radioactivity Levels in Water Sample from
Southern Space Laundry, Macon

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
S 1575	Holding tank	180 \pm 26	140 \pm 12

-
- Notes: 1. Sample was collected on July 14, 1981.
2. Other results are in Monthly Report for July 1981, Table 17.

Table 24

Radioactivity in Smears from
Southern Space Laundry, Macon

Sample No.	Location	Area, cm ²	Radioactivity level, pCi/100cm ²							
			Gross alpha	Gross beta	Mn-54	Co-60	Zn-65	Nb-95	Cs-134	Cs-137
S 1615	Roof near stack	100	2.3 ± 0.5	44 ± 1	5	48	46	10	<5	16
S 1616	Outside hold-up tank	100	6.4 ± 0.8	153 ± 2	28	190	180	32	40	56
S 1617	Top utility	200	0.8 ± 0.4	2.8 ± 0.5	<2	<2	<3	<2	<2	<2
none	Control		<0.1	<0.4	--	--	--	--	--	--

Note: Samples were collected on July 14, 1981 by DNR staff.

Table 25

Radioactivity in Smears of a Bed, Norcross

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/100cm²</u>	<u>Gross beta, pCi/100cm²</u>	<u>H-3, pCi/100cm²</u>
S 1623	#1, left pole from rear frame	<0.2	<0.2	<4
S 1624	#2, headboard	<0.2	<0.2	<4
S 1625	#3A, top of mattress	<0.2	<0.2	<4
S 1626	#3B, bottom of mattress	<0.2	<0.2	<4
S 1627	#4A, top of springs	<0.2	<0.2	<4
S 1628	#4B, bottom of springs	<0.2	<0.2	<4
S 1629	#5, frame, bottom portion	<0.2	<0.2	<4

Note: Samples were collected by DNR staff on August 21, 1981.

Table 26

Radioactivity in Smears of a Freezer

<u>Sample No.</u>	<u>Location</u>	<u>I-125, pCi/100cm²</u>
S 1605	#1, freezer	<0.2
S 1606	#2, left side, refrig. door	<0.2
S 1607	#3, middle rack, bottom	0.3 ± 0.2
S 1608	#4, top of meat keeper	<0.2
S 1609	#5, door handle	<0.2
S 1610	Control	<0.2

-
- Notes: 1. Samples were collected by DHR staff on July 23, 1981.
2. No man-made photon-emitting radionuclides were detected (Co-60 <0.6 pCi/100cm²).

Table 27

Gross Alpha Activity, Radium Concentrations, and Uranium
Concentrations in Georgia Community Water Systems
One-Year Quarterly Composites

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Ra-226, pCi/l</u>	<u>Ra-228, pCi/l</u>	<u>Uranium, pCi/l</u>
WS 1621	Martinez Water Assoc	11 ± 2	0.1	<1	3
WS 1624	Waters MHP	8 ± 1	2.0	<1	<2
WS 1627	City of Allentown	10 ± 2	0.9	2	<2

Table 28

Gross Alpha Activity and Radium Concentrations in New Community Water Systems

Sample No.	Location	Date Collected	Date Received	Gross alpha, pCi/l	Ra-226, pCi/l	Ra-228, pCi/l
WX 487	Oconee Properties (Sugar Creek Farms S/D)	8/2/81	8/12/81	<2	---	---
WX 488	City of Remerton	unknown	8/12/81	2 ± 1	---	---
WX 489	Alcovy Shores Water & Sewer Authority, Jasper County	8/6/81	8/13/81	10 ± 1	2.3	<1
WX 490	Town of Augurn Barrow Co.; Well #2	8/11/81	8/13/81	9 ± 1	0.3	<1
WX 491	City of Remerton, #309224048, Lowndes Co.	8/12/81	8/17/81	2 ± 1	---	---
WX 492	Houston Co. Water System, #307607546, Houston Co.; Dunbar	8/20/81	8/27/81	<1	---	---
WX 493	Sea Island Co., #306306424, Glynn Co.; Well #4	8/21/81	8/27 '81	<2	---	---
WX 494	Houston Co. Water System, #407612538, Houston Co.; Quail Run	8/20/81	8/27/81	<1	---	---

Table 29

Fallout from Chinese Atmospheric Nuclear Test of
October 16, 1980, Airborne Particles - State Building Samples

Sample No.	Sample date, 1981	Volume, m ³	Gross beta, pCi/m ³	Radionuclide concentration, fCi/m ³							
				Be-7	Zr-95	Nb-95	Ru-103	Ru-106	Cs-137	Ce-141	Ce-144
S 1622	8/3-20	3,685	0.014	31	<1	2	<1	<1	<1	<1	3
S 1650	8/20-9/2	2,801	0.018	37	1	2	<1	<1	<1	<1	3

-
- Notes: 1. Gross beta activity was measured 6 hours after collection and includes Rn-220 daughters. Be-7 is also of natural origin. Among the shorter-lived fission products that were searched for are I-131 and Ba-140.
2. The filters are 12.5-cm-dia. charcoal-impregnated pads.

Table 30

Exposure Rates at Nuclear
Facilities Measured with TLD's

GEORGIA POWER PLANT HATCH ... 810119-810805: 198 DAYS

TLD#	MR	MICRR/HR	MR/YR
34.0	17.5	3.7	32.3
(+-)	2.7	0.6	5.0
44.0	23.2	4.9	42.8
(+-)	2.6	0.5	4.8
NET. AVG.:	20.4	4.3	37.5
(+-)	8.1	1.7	14.9

Table 30 (cont'd)

GEORGIA POWER NUCLEAR PLANT / HATCH ... 810402-810805: 107 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0	9.5	3.7	32.4
(+-)	1.3	0.5	4.4
2.0	10.1	3.9	34.5
(+-)	1.6	0.6	5.5
3.0	10.8	4.2	36.8
(+-)	2.1	0.8	7.2
4.0	8.5	3.3	29.0
(+-)	2.0	0.8	6.8
5.0	9.8	3.8	33.4
(+-)	2.1	0.8	7.2
6.0	10.1	3.9	34.5
(+-)	2.0	0.8	6.8
7.0	11.9	4.6	40.6
(+-)	1.6	0.6	5.5
8.0	8.6	3.3	29.3
(+-)	1.7	0.7	5.8
9.0	8.3	3.2	28.3
(+-)	1.8	0.7	6.1
11.0	8.2	3.2	28.0
(+-)	1.9	0.7	6.5
12.0	10.0	3.9	34.1
(+-)	1.5	0.6	5.1
13.0	14.6	5.7	49.8
(+-)	2.4	0.9	8.2
14.0	9.4	3.7	32.1
(+-)	1.3	0.5	4.4
15.0	10.6	4.1	36.2
(+-)	1.3	0.5	4.4
16.0	10.0	3.9	34.1
(+-)	1.4	0.5	4.8
17.0	10.1	3.9	34.5
(+-)	1.7	0.7	5.8
18.0	10.6	4.1	36.2
(+-)	1.4	0.5	4.8
19.0	8.8	3.4	30.0
(+-)	2.3	0.9	7.5

... <> 95% NORMAL DIST.

Table 30 (cont'd)

20.0 (+-)	10.1 1.9	3.9 0.7	34.5 6.5
21.0 (+-)	9.5 2.2	3.7 0.9	32.4 7.5
22.0 (+-)	12.4 2.3	4.8 0.9	42.3 7.8
23.0 (+-)	8.6 1.4	3.3 0.5	29.3 4.8
24.0 (+-)	10.5 1.9	4.1 0.7	35.8 6.5
25.0 (+-)	7.8 1.2	3.0 0.5	26.6 4.1
26.0 (+-)	7.7 1.7	3.0 0.7	26.3 5.8
27.0 (+-)	10.2 1.6	4.0 0.6	34.8 5.5
28.0 (+-)	8.5 1.6	3.3 0.6	29.0 5.5
29.0 (+-)	8.0 1.7	3.1 0.7	27.3 5.6
30.0 (+-)	9.1 1.2	3.5 0.5	31.0 4.1
31.0 (+-)	9.7 1.8	3.8 0.7	33.1 6.1
32.0 (+-)	10.2 2.1	4.0 0.8	34.8 7.2
33.0 (+-)	9.9 1.5	3.9 0.6	33.8 5.1
34.0 (+-)	8.6 1.8	3.3 0.7	29.3 6.1
35.0 (+-)	10.5 2.3	4.1 0.9	35.8 7.8
36.0 (+-)	8.1 2.2	3.2 0.9	27.6 7.5
37.0 (+-)	9.0 1.8	3.5 0.7	30.7 6.1
38.0 (+-)	7.9 1.4	3.1 0.5	26.9 4.8
39.0 (+-)	9.6 1.8	3.7 0.7	32.8 6.1
40.0 (+-)	8.5 1.3	3.3 0.5	29.0 4.4

Table 30 (cont'd)

41.0	11.4	4.4	38.9
(+-)	1.3	0.5	4.4
42.0	8.6	3.3	29.3
(+-)	2.0	0.8	6.8
44.0	8.8	3.4	30.0
(+-)	1.9	0.7	6.5
NET. AVG.:	9.6	3.7	32.7
(+-)	2.7	1.1	9.3

Table 30 (cont'd)

STATE BKG - PLANT HATCH ... 810420-810805: 107 DAYS

TLD#	MR	MICRR/HR	MR/YR
6.0	9.7	3.8	33.3
(+-)	8.1	3.1	27.5
7.0	10.5	4.1	35.8
(+-)	2.1	0.8	7.1
8.0	10.1	3.9	34.5
(+-)	1.8	0.7	6.1
HET. AVG.:	10.1	3.9	34.5
(+-)	0.7	0.3	2.5

Table 30 (cont'd)

KINGS BAY SUBMARINE BASE ... 800514-810819: 462 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0	59.9	5.4	47.3
(+-)	21.2	1.9	16.7
2.0	43.2	3.9	34.1
(+-)	8.5	0.8	6.7
3.0	41.5	3.7	32.8
(+-)	12.8	1.2	10.1
4.0	45.2	4.1	35.7
(+-)	10.3	0.9	8.1
6.0	41.5	3.7	32.8
(+-)	9.4	0.9	7.5
8.0	37.6	3.4	29.7
(+-)	6.0	0.5	4.8
9.0	35.3	3.2	27.9
(+-)	6.4	0.6	5.1
10.0	43.0	3.9	34.0
(+-)	7.8	0.7	6.2
11.0	48.6	4.4	38.4
(+-)	7.8	0.7	6.2
12.0	49.6	4.5	39.2
(+-)	8.2	0.7	6.4
NET. AVG.:	44.5	4.0	35.2
(+-)	13.9	1.3	11.0

Table 30 (cont'd)

GEORGIA TECH NUCLEAR REACTOR ... 810522-810820: 90 DAYS

TLD#	MR	MICRR/HR	MR/YR	
1.0	20.4	9.4	82.7	
(+-)	2.7	1.3	11.0	
2.0	21.1	9.8	85.6	
(+-)	2.5	1.2	10.1	
3.0	18.0	8.3	73.0	
(+-)	1.8	0.8	7.4	
4.0	21.4	9.9	86.6	
(+-)	2.3	1.1	9.3	
5.0	16.7	7.7	67.8	
(+-)	2.0	0.9	7.9	
6.0	16.1	7.5	65.4	
(+-)	2.1	1.0	8.4	
7.0	16.0	7.4	65.0	
(+-)	2.1	1.0	8.3	
8.0	15.6	7.2	63.2	
(+-)	1.9	0.9	7.6	
9.0	37.3	17.3	151.4	
(+-)	3.2	1.5	12.8	... <> 95% NORMAL DIST.
11.0	12.8	5.9	51.8	
(+-)	1.6	0.7	6.6	
12.0	15.6	7.2	63.3	
(+-)	1.7	0.8	7.1	
13.0	20.6	9.6	83.7	
(+-)	2.2	1.0	8.9	
14.0	16.7	7.7	67.7	
(+-)	1.8	0.8	7.3	
NET. AVG. ±	19.1	8.8	77.5	
(+-)	12.1	5.6	49.2	

Table 30 (cont'd)

TVA NUCLEAR PLANT SEQUOYAH ... 810610-810819: 70 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0	8.1	4.8	42.1
(+-)	1.3	0.8	6.9
2.0	6.6	3.9	34.6
(+-)	1.4	0.8	7.3
3.0	7.6	4.5	39.6
(+-)	1.9	1.1	10.0
4.0	8.6	5.1	44.9
(+-)	1.6	0.9	8.1
5.0	6.8	4.1	35.6
(+-)	1.0	0.6	5.2
6.0	5.9	3.5	30.8
(+-)	1.3	0.8	6.6
7.0	8.5	5.1	44.3
(+-)	1.5	0.9	7.8
8.0	9.8	5.8	51.1
(+-)	2.0	1.2	10.4
9.0	8.8	4.8	41.7
(+-)	1.2	0.7	6.4
10.0	8.6	5.1	44.9
(+-)	1.5	0.9	8.1
11.0	8.5	5.0	44.2
(+-)	1.6	0.9	8.3

NET. AVG.: 7.9 4.7 41.3
 (+-) 2.2 1.3 11.5

Table 30 (cont'd)

STATE BKG * SEQUOYAH ... 810610-810819: 70 DAYS

TLD#	MR	MICRR/HR	MR/YR
14.0	12.2	7.3	63.6
(+-)	1.6	1.0	8.4
15.0	11.7	7.0	61.0
(+-)	2.1	1.2	10.7
16.0	6.1	3.6	31.8
(+-)	1.9	1.1	9.8
NET. AVG.:	10.0	6.0	52.2
(+-)	6.8	4.0	35.3

Georgia Institute of Technology
A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA
SCHOOL OF NUCLEAR ENGINEERING AND HEALTH PHYSICS
ATLANTA, GEORGIA 30332

ENVIRONMENTAL RADIATION LABORATORY
205 Old Civil Engineering Building

(404) 894-2375

M E M O R A N D U M

DATE: October 21, 1981

TO: Mr. William Cline, Program Manager
Environmental Radiation Program, EPD, DNR

FROM: Bernd Kahn, Director *Bernd Kahn*
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the Environmental
Radiation Laboratory, September 1981

The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental monitoring at nuclear facilities by DNR staff	Tables 1-16
Monitoring by DNR staff of Community Water Systems	Tables 17-20
Monitoring fallout	Tables 21-22
TLD data	Table 23

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity attributed to the facility:

Tables 13, 14 and 16 -- H-3 was in milk at a nearby dairy, in nearby rainwater, and in a water supply downstream from the Savannah River Plant

Tables 3 and 5 -- Co-60 was in soil and grass at the Dawson Forest.
The Co-60 levels in soil are very high.

All other radionuclides in Tables 1-16 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

Reanalysis of public water systems in the four-year cycle has begun; the samples listed in Table 17 show no gross alpha particle activity above 5 pCi/l; the samples that could exceed this value if the 2-sigma counting error is considered will be analyzed for radium. Grab samples of systems for which the maximum contaminant levels had been exceeded generally continue to show elevated values, as indicated in Table 18. Analyses of new supplies are given in Table 19. One elevated gross alpha particle activity was due to uranium, and a sample from another system is being analyzed for radium to determine the cause. Analyses of

supplies that are not public are reported in Table 20. The samples with elevated gross alpha particle activity in this group are also being checked for radium content.

The air filters from high-volume air samplers operated to detect fallout from recent atmospheric nuclear tests, given in Table 21, for the first month in almost two years do not show elevated levels of recently formed fallout. Naturally occurring Be-7 was the only radionuclide at levels above 1 fCi/m³ detected after 6-hour storage of the filters to remove Rn-222 daughters. No radionuclides were detected in rainwater (see Table 22).

External exposure rates measured with TLDs are given in Table 23. One clearly elevated annual exposure was found in the Dawson Forest area.

A new procedure for determining I-131 in milk has been tested and found more convenient than the formerly used method. The new procedure uses a very small anion-exchange resin column and eliminates the need for extensive oxidation and reduction procedures. It is being applied routinely now.

Table 1
Radioactivity Levels in Air Samples from the
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m³</u>	<u>Radionuclide concentration, pCi/m³</u>	
				<u>I-131</u>	<u>Gross beta</u>
B 420*	Cartridge	Substation	273	<0.04	---
B 421*	Filter paper	Substation	273	---	0.013
B 422	Cartridge	Plant	273	<0.01	---
B 423	Filter paper	Plant	273	---	0.009

Notes: 1. Samples were collected on September 10, 1981, after 7-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 2

Radioactivity Levels in Grass Samples from
the Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>		
		<u>Nb-95</u>	<u>Cs-137</u>	<u>Be-7</u>
B 424*	TLD #17	<30	29	450
B 425*	TLD #21	37	* 48	660
B 426*	TLD #5	<30	50	1,250

-
- Notes: 1. Samples were collected on September 15, 1981.
2. No other man-made photon-emitting radionuclides were detected.
Be-7 is formed in nature.

Table 3

Radioactivity Levels in Soil and Sediment Samples from
the Environment of the Dawson Forest

Sample No.	Location	Radionuclide concentration, pCi/kg						
		Co-60	Zr-95	Nb-95	Cs-137	K-40	Ra-226	Ra-228
D 189	COA #1	1.6 E8	---	---	<5 E5	--	---	---
D 190	COA #2	4.1 E8	---	---	<1 E6	--	---	---
D 191	Etowah R. bed upstream	<20	110	240	170	4,800	500	600
D 192	Etowah R. bed downstream	<20	40	110	90	1,000	600	700
D 198	Seepage - pit	24	<40	36	26	2,500	600	400
D 199	Stream bed at Salem Church	<20	<40	<30	<30	13,800	900	2,000
D 200	N. COA stream bed	<20	<40	<30	63	4,300	600	400
D 201	Hot cell run off	170	<40	<30	140	12,900	1,900	1,400
D 202	1000' NE hot cell	<20	<40	<30	<30	10,300	500	1,200
D 203	TLD #2 COA	8,900	<40	150	330	6,100	800	1,200
D 204	TLD #1 COA	1,900	<90	<60	150	12,600	1,300	1,300

-
- Notes: 1. Samples D 189-192 were collected September 17, 1981; D 198-204 were collected on September 22, 1981.
 2. No other man-made photon-emitting radionuclides were detected.
 3. Notation 1.6 E8 means 1.6×10^8 .

Table 4

Radioactivity Levels in Water Samples from the
Environment of the Dawson Forest

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l
D 193	Etowah River - near Hot cell bldg.	<2	2 ± 2	<200
D 194	Etowah River, downstream	<2	<3	<200
D 195	Cranford residence	<1	<2	<200
D 196	Morgan residence	1 ± 1	<3	<200
D 197	Anglin residence	<2	2 ± 1	<200
D 209	G & F check point	<2	<4	<200
D 210	Stream at Salem Church	<2	<4	<200
D 211	Stream below reactor seepage pit	<2	<4	300 ± 200
D 212	1000' NE of hot cell	<2	<4	400 ± 200
D 213	N. COA stream	<2	<4	<200
D 214	Runoff hot cell area	3 ± 1	12 ± 2	<200

Note: Samples D 193-197 were collected on September 14, 1981;
D 209-214 were collected on September 22, 1981; D 196,
197, 209 are surface waters; all others are ground
waters.

Table 5

Radioactivity Levels in Grass Samples from
the Environment of the Dawson Forest

Sample No.	Location	Radionuclide concentration, pCi/kg				
		Co-60	Zr-95	Nb-95	Cs-137	Be-7
D 205	TLD #2 COA	<50	100	160	<60	2,200
D 205	TLD #1 COA	60	190	420	200	3,600
D 207	Reactor area	<40	<60	<40	<30	1,500
D 208	Bkgd DFWMA	<40	<60	<40	50	440

- Notes:
1. Samples were collected on September 22, 1981.
 2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 6

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Farley Nuclear Plant

Sample No.	Sample type	Location	Volume, m ³	Radionuclide concentration, pCi/m ³	
				I-131	Gross beta
F 359*	Cartridge	Blakely Water Tower	1030	<0.008	---
F 360*	Paper filter	Blakely Water Tower	1030	---	0.020
F 361*	Cartridge	Great So. Airport	1058	<0.008	---
F 362*	Paper filter	Great So. Airport	1058	---	0.024

-
- Notes: 1. Samples were collected on September 17, 1981, after 7-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 7

Radioactivity Levels in Waste Water at the
Georgia Tech Research Reactor Center

<u>Sample No.</u>	<u>Radioactivity concentration, pCi/l</u>	
	<u>Sr-89</u>	<u>Sr-90</u>
GT 101	<5	<2

-
- Notes: 1. Sample was collected on August 20, 1981 from the liquid waste tank.
2. Other results are in Monthly Report for August, 1981, Table 11.

Table 8

Radioactivity Levels in Soil Samples from
the Environment in Georgia of the Oconee Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg				
		Nb-95	Cs-137	K-40	Ra-226	Ra-228
LH 92	TLD #1	<60	1,200	6,700	1,100	1,500
LH 93	TLD #3	<60	170	4,100	1,200	800
LH 94	TLD #9	220	480	16,000	600	800

-
- Notes: 1. Samples were collected on September 17, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 9

Radioactivity Levels in Grass Samples from
the Environment in Georgia of the Oconee Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>		
		<u>Nb-95</u>	<u>Cs-137</u>	<u>Be-7</u>
LH 95	TLD #1	<40	56	1,600
LH 96	TLD #3	<40	<40	450
LH 97	TLD #9	68	<40	3,200

-
- Notes: 1. Samples were collected on September 17, 1981.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 10

Radioactivity Levels in Water Samples from the
Environment in Georgia of the Oconee Nuclear Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l
LH 98	TLD #1	<2	<2	300 ± 200
LH 99	Hartwell Marina	<1	<2	<200
LH 100	TLD #9	<1	<2	<200
LH 101	GA Welcome Center	14 ± 3	4 ± 2	<200
LH 102	Corps of Engineers	2 ± 1	4 ± 2	<200

-
- Notes: 1. Samples were collected on September 18, 1981.
2. LH 98-100 are surface waters; LH 101-102 are ground waters.

Table 11

Background Radioactivity Levels in Soil Samples
from the Environment in Georgia

Sample No.	Location	Radionuclide concentration, pCi/kg					
		<u>Zr-95</u>	<u>Nb-95</u>	<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
SB 1	TLD #19, LH	<80	90	470	14,600	1,200	1,200
SB 2	TLD #21, LH	81	220	360	9,200	1,000	900

-
- Notes: 1. Samples were collected on September 17, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 12

Background Radioactivity Levels in Grass Samples
from the Environment in Georgia

Sample No.	Location	Radionuclide concentration, pCi/kg		
		<u>Nb-95</u>	<u>Cs-137</u>	<u>Be-7</u>
SB 3	TLD #19, LH	36	<20	950
SB 4	TLD #21, LH	<40	<30	950

-
- Notes: 1. Samples were collected on September 17, 1981.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 13

Radioactivity Levels in Milk Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>
SR 332	Dixon Dairy	<5	2	<10	1.6	300 ± 200
SR 333	McElmurry Dairy	<3	2	<10	1.6	600 ± 200

Notes: 1. Samples were collected on September 10, 1981.
2. No I-131 (<15 pCi/l) or Ba-140 were detected.

Table 14

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l	I-131, pCi/l
SR 334	River #2	<1	<3 *	<200	<0.1
SR 335	River, #10	<1	2 ± 2	2800 ± 200	<0.1
SR 336	Augusta rainwater	---	---	600 ± 200	---
SR 337	Augusta rainwater	---	---	300 ± 200	---
SR 338	Perkins rainwater	---	---	800 ± 200	---
SR 339	Perkins rainwater	---	---	1600 ± 200	---
SR 340	S Richmond rainwater	---	---	300 ± 200	---
SR 341	S Richmond rainwater	---	---	<200	---
SR 342	Hwy 301 rainwater	---	---	800 ± 200	---
SR 343	Hwy 301 rainwater	---	---	<200	---

-
- Notes: 1. Samples were collected on September 8, 1981 (SR 334-335), August 13-27, 1981 (SR 336, 338, 340, 342), and August 27-September 10, 1981 (SR 337, 339, 341, 343).
2. No man-made photon-emitting radionuclides (Cs-137 <10 pCi/l) were detected in samples SR 334 and 335.

Table 15

Radioactivity Levels in Sweet Potato Sample from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137 concentration, pCi/kg</u>
SR 343	Screven Co. Ag. Lab No. PR-82-217	<10

-
- Notes: 1. Collection date was not given; sample was received
on September 16, 1981.
2. No other man-made photon-emitting radionuclides were
detected.

Table 16

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 344	Port Wentworth I&D Water Supply	<3	2 ± 2	2800 ± 200	<0.1

Notes: 1. Sample was collected September 1-8, 1981.
2. No man-made photon-emitting radionuclides (Cs-137 <10 pCi/l) were detected.

Table 17

Gross Alpha Activity in Community Water Systems (Type 1)
for the First 4-year Cycle

<u>Sample No.</u>	<u>Location</u>	<u>Date Collected</u>	<u>Gross alpha, pCi/l</u>
WS 1681	The Barn MHP, #301614335, Bulloch Co.	8/26/81	<2
WS 1682	City of Pulaski, #302101627, Candler Co.	8/27/81	<2
WS 1683	Rockdale S/D, #308714634, Laurens Co.	8/26/81	<2
WS 1684	St. Regis Paper, #303203155, Clinch Co.	9/10/81	<2
WS 1685	City of Newington, #312411088, Sreven Co.	8/25/81	<2
WS 1686	Breckenridge South MHP, #301100667, Bibb Co.	9/3/81	<2
WS 1687	Ridgeview Apts., #401602498, Bullock Co.	8/26/81	<2
WS 1688	Wayne Co. Substance Abuse Center, #415124504, Wayne Co.	8/14/81	<2
WS 1689	City of Surrency, #300100026, Appling Co.	9/8/81	<2
WS 1690	Millcreek Mobile Estates, #401602355, Bulloch Co.	8/26/81	<2
WS 1691	City of Dawson, #313511848, Terrell Co.	9/16/81	<2
WS 1692	City of Chester, #304504259, Dodge Co.	9/2/81	<2
WS 1693	John Alford S/D, #309819310, McIntosh Co.	9/10/81	<2
WS 1694	Dixie Apt & Trailer Pk #308921708, Liberty Co.	8/19/81	<2

Table 17 (cont'd)

<u>Sample No.</u>	<u>Location</u>	<u>Date Collected</u>	<u>Gross alpha, pCi/l</u>
WS 1695	Garden Acres S/D, #302502178, Chatham Co.	9/15/81	<2
WS 1696	City of Gordon, #315813610, Wilkinson Co.	9/8/81	4 ± 2
WS 1697	Ogeechee Farms S/D, #302502275, Chatham Co.	8/11/81	<2
WS 1698	City of Kite, #308308073, Johnson Co.	9/3/81	<2
WS 1699	City of St. Marys, #302001541, Camden Co.	8/14/81	<1
WS 1700	Frink's MHP, #401602504, Bulloch Co.	8/27/81	<2
WS 1701	Sandy Acres MHP, #404306878, Decatur Co.	8/5/81	<1
WS 1702	GA Baptist Children's Home #300100071, Appling Co.	9/8/81	<1
WS 1703	Briar Patch Community, #309821078, McIntosh Co.	9/10/81	<3
WS 1704	City of Doerun, #303503420, Colquitt Co.	8/3/81	2 ± 2
WS 1705	Cannon Bluff, #309821430, McIntosh Co.	9/10/81	<2
WS 1706	Vista Pines Apt., #401201655, Bleckley Co.	9/11/81	<2
WS 1707	City of Norman Park, #303503466, Colquitt Co.	8/18/81	<2
WS 1708	Hawaiian Village MHP, #301113920, Bibb Co.	9/2/81	<2
WS 1709	Sandhill S/D, #401201673, Bleckley Co.	9/11/81	<2
WS 1712	Cherokee Rose Country Club, #408914352, Liberty Co.	8/27/81	<2
WS 1713	Jones Community, #309821087, McIntosh Co.	9/10/81	<2

Table 17 (cont'd)

Sample No.	Location	Date Collected	Gross alpha, pCi/l
WS 1714	Spring Grove Acres S/D, #314114748, Wayne Co.	8/14/81	<3
WS 1715	Montgomery Co. Correctional Institute, #310309877	9/15/81	2 ± 2
WS 1716	Lee MHP, #400300300, Bacon Co.	9/17/81	<2
WS 1717	Bryan Acres, #301500957, Bryan Co.	9/16/81	<2
WS 1718	Bryan Woods S/D, #301500966, Bryan Co.	9/16/81	<2
WS 1719	Register, #301601054, Bulloch Co.	9/16/81	<2
WS 1720	Strathy Hall, #301501011, Bryan Co.	9/1/81	<2
WS 1721	Highland Park S/D, Appling Co.	9/17/81	<2
WS 1722	Lincoln River Estates, #301501022, Bryan Co.	9/16/81	<2
WS 1723	Black Creek Farms S/D, 301500948, Bryan Co.	9/16/81	<2
WS 1724	Cape Hardwick, #301500984, Bryan Co.	9/16/81	2 ± 2
WS 1725	Frankville Water Assn., #401602249, Bullock Co.	9/17/81	2 ± 2
WS 1726	Pine Barren Acres, #302502318, Chatham Co.	8/11/81	<2
WS 1727	Nevils Water Assn., #301601036, Bulloch Co.	9/17/81	<2
WS 1728	Jasper Co. Correctional Inst., #407913064, Jasper Co.	9/16/81	<2
WS 1729	City of Wrightsville, #308308091, Johnson Co.	9/16/81	<3
WS 1730	City of Oliver, #312411097, Screven Co.	8/25/81	<2

Table 17 (cont'd)

<u>Sample No.</u>	<u>Location</u>	<u>Date Collected</u>	<u>Gross alpha, pCi/l</u>
WS 1731	Village Home Park, #300117114, Appling Co.	8/26/81	3 ± 2
WS 1732	River's End S/D, #302502363, Chatham Co.	9/14/81	<2
WS 1733	Nassau Woods, #302502363, Chatham Co.	9/15/81	<2
WS 1734	Clubview S/D, #303503545, Colquitt Co.	8/3/81	<2
WS 1735	Southern Fountain MHP, #302502080, Chatham Co.	8/27/81	<2
WS 1736	Midway Nursing Inn #408914477	8/27/81	<2
WS 1737	Commodore Point, #302515778, Chatham Co.	8/25/81	<2
WS 1738	Nelson Law S/D, #401634482, Bulloch Co.	9/17/81	<2
WS 1739	Country Manor MHP, #40913381, Long Co.	8/27/81	<2
WS 1740	Hodge TP, #408413372, Jones Co.	9/2/81	5 ± 3

Table 18

Gross Alpha Activity and Radium Concentrations in Georgia Community Water Systems -- Grab Samples of Supplies (Type 3) for which Annual Composites had Elevated Levels

<u>Sample No.</u>	<u>Location</u>	<u>Collection date, 1981</u>	<u>Gross alpha, pCi/l</u>	<u>Ra-226, pCi/l</u>	<u>Ra-228, pCi/l</u>
WS 1674	City of Attapulgus, #304304158, Decatur County	8-5-81	18 ± 6	in process	
WS 1675	Country Haven MHP, #413721811	8-11-81	74 ± 9	in process	
WS 1676	City of Enigma, #301000475, Berrien Co. raw water at well	8-13-81	8 ± 5	in process	
WS 1677	Pine Hill MHP, #313717743, Tift County	8-11-81	23 ± 5	in process	
WS 1678	City of Marshallville, #309409298, Macon County	8-25-81	11 ± 2	in process	
WS 1679	City of Buena Vista #309609450, Marion County	8-5-81	4 ± 2	in process	
WS 1680	City of Alapaha, #301000466, Berrien County	7-22-81	7 ± 3	in process	

Note: All samples were received on September 21, 1981.

Table 19

Gross Alpha Activity in New Community Water Systems (Type 4)

Sample No.	Location	Date Collected	Date Received	Gross alpha, pCi/l
WX 495	Notla Water Authority, Well #4	8/28/81	9/2/81	5 ± 1^d
WX 496	City of Dawsonville, Well #3, Dawsonville Park Hwy 19N	8/31/81	9/2/81	3 ± 1^d
WX 497	Tall Timbers-Oak Openings, Well #2; additional sample requested for WX 423	9/1/81	9/3/81	<2
WX 498	Tall Timbers-Oak Openings S/D, Well #4; additional sample for WX 417 ^b	9/1/81	9/3/81	9 ± 3^d
WX 499	Tall Timbers-Oak Openings S/D, Well #5	9/1/81	9/3/81	<2
WX 500	Woodland Valley S/D, Well #4	9/1/81	9/3/81	<2
WX 501	Island Creek S/D, Well #4	9/1/81	9/3/81	<4
WX 537	Noah's Mountain S/D, Well #1, Anderson Drive	9/1/81	9/8/81	1 ± 1
WX 538	City of Dawsonville, distribution system 1/2 mile from Well #3	9/1/81	9/8/81	16 ± 3^d
WX 569	Town of Baldwin, Well #5, Hwy 365	9/9/81	9/17/81	<1
WX 570	Town of Baldwin, Well on South Airport Road	9/10/81	9/17/81	<1
WX 1666	East Ocmulgee Acres, Dogwood Drive Well	9/14/81	9/21/81	2 ± 1
WX 1667	Island Creek S/D, Well #6	9/8/81	9/21/81	$8 \pm 3^{a,c}$

Table 19 (cont'd)

Sample No.	Location	Date Collected	Date Received	Gross alpha, pCi/l
WX 1668	City of Buena Vista, Well #5, Rogers Street	9/14/81	9/21/81	2 1
WX 1669	Sky Valley	9/14/81	9/21/81	<1
WX 1670	Island Creek S/D, Well #5	9/8/81	9/21/81	16 ± 4 ^{a,c}
WX 1671	East Ocmulgee Acres Redbud Drive Well	9/9/81	9/21/81	2 ± 1
WX 1672	Sangrena Woods Water System, Well #2	9/17/81	9/21/81	<2
WX 1673	Kendall Creek, Greenville	9/17/81	9/21/81	<1
WX 1691	City of Dawson, Well #5	9/16/81	9/24/81	<2
WX 1710	Joe Brown Spring, Habersham County	9/24/81	9/24/81	<1

Notes: ^a Ra-226 analysis is in process.
^b Ra-226 in WX 417 is 0.2 pCi/l. Uranium is 9 pCi/l (see Monthly Report for May 1981, Table 17).
^c Ra-228 analysis is in process.
^d Results of Ra-226 analysis (pCi/l): WX 495, 0.5; WX 538, 1.6.
Results of Ra-228 analysis (pCi/l): WX 496, 2; WX 498, 1; WX 538, 2.

Table 20

Gross Alpha Activity in Wells that are not Community Water Systems

Sample No.	Location	Date Collected	Date Received	Gross alpha, pCi/l
WX 502	Crestwood MHP, #313621118; tap #2	11/1/79	9/3/81	<2
WX 503	#306815549	5/16/79	9/3/81	<1
WX 504	Royal Ct. #414729641	1/3/79	9/3/81	2 ± 1
WX 505	Tift Area MHP, #4137221	9/26/79	9/3/81	<2
WX 506	Hapman Mills, #305205310	3/19/80	9/3/81	<2
WX 507	Mistletoe State Park, #303603727, Columbia Co.	5/10/79	9/3/81	10 ± 2 ^{c,d}
WX 508	Patchogue Plymouth Bain- bridge Mills, #304315901	3/15/79	9/3/81	2 ± 2
WX 509	Beaver River Beaches, #305805733	1/23/78	9/3/81	<1
WX 510	Flint Concrete Co., #404333283	3/5/79	9/3/81	2 ± 2
WX 511	Richmond Hill State Park, #301500939, Bryan Co.	6/1/79	9/3/81	<2
WX 512	Forest Lake Estates, #313716777, Tift Co.	2/15/79	9/3/81	2 ± 2
WX 513	Regester's MHP, #409214693	9/25/79	9/3/81	<2
WX 514	Reo S/D, #414630673, Walker County	5/7/80	9/3/81	2 ± 2
WX 515	Marnell MHP, #305623041, Fayette County	5/7/80	9/3/81	3 ± 2 ^d
WX 516	#402541723	4/4/79	9/3/81	<2
WX 517	So. Ga. Tech. Voc. School Odom Ctr, Sumter Co.	6/12/79	9/3/81	<1
WX 518	Lehigh Acres & Creekwood Apts., #408827830	6/1/79	9/3/81	<1

Table 20 (cont'd)

Sample No.	Location	Date Collected	Date Received	Gross alpha, pCi/l
WX 519	Parker Mathis School, #409214718, Lowndes Co.	6/1/79	9/3/81	2 ± 2
WX 520	Shady Lakes TP, #411338552, Pierce Co.	1/9/80	9/3/81	2 ± 1
WX 521	Bettesda Bags Home #302518538, Chatham Co.	10/2/79	9/3/81	<2
WX 522	Sweetwater Creek State Park, #404807441, Douglass Co.	2/11/80	9/3/81	1 ± 1
WX 523	Ft. Argyle, #302502169, Chatham County	10/2/79	9/3/81	<2
WX 524	Michael Dr., #303818151, Coweta County	4/24/79	9/3/81	<1
WX 525	Tift County Water & Sewer Authority, Brookfield Methodist parsonage, #313712612	8/28/79	9/3/81	6 ± 3^d
WX 526	Crestwood MHP #2, #313621118	8/1/79	9/3/81	<5
WX 527	#302522176	1/2/80	9/3/81	<2
WX 528	Beaver Creek, #303516932	3/14/79	9/3/81	1 ± 1
WX 529	Tugaloo State Park, #312711371, Franklin Co.	1/29/80	9/3/81	$14 \pm 4^{c,d}$
WX 530	Providence Canyon State Park, #312811475, Stewart Co.	3/9/79	9/3/81	<2
WX 531	Pine Hill MHP, Lot #74, #413721848, Tift Co.	8/21/79	9/3/81	$21 \pm 4^{c,d}$
WX 532	L.L. Thomas MHP, #402904780	2/22/79	9/3/81	4 ± 2^d
WX 533	Brookwood Estates, #310822745, Oconee Co.	7/10/80	9/3/81	<1
WX 534	Cedar Hill MHP #300818408, Bartow Co.	1/30/80	9/3/81	<2
WX 535	Ft. Gaine, #30300364	9/24/79	9/3/81	<2

Table 20 (cont'd)

Sample No.	Location	Date Collected	Date Received	Gross alpha, pCi/l
WX 536	Northwest Woods #5, #310815879	1/24/79	9/3/81	<1
WX 539	Sunnyland Foods, Well 2, #313611951	3/8/79	9/3/81	2 ± 1
WX 540	#413631442	6/14/79	9/3/81	<3
WX 541	Maddox Trailer Park, #300700672, Barrow Co.	7/10/80	9/3/81	<2
WX 542	Massingill MHP, #312621151, Spalding Co.	5/7/80	9/3/81	<2
WX 543	Mitchell's TP, #412721085	3/26/79	9/3/81	2 ± 1
WX 544	Toccoa Falls MHP, #312723154	5/15/80	9/3/81	47 ± 6 ^{a,b}
WX 545	Skidaway State Park, #302502044, Chatham Co.	4/5/79	9/3/81	<2
WX 546	City of Fort Oglethorpe, #314617235	12/6/77	9/3/81	<2
WX 547	Live Oak Trailer Park, #302522945, Chatham Co.	2/26/80	9/3/81	<3
WX 548	#302502223	9/24/79	9/3/81	2 ± 2
WX 549	Forest Manor MHP, #413621647, Thomas Co.	3/12/78	9/3/81	4 ± 2 ^a
WX 550	Thomas Village TP, #401206434, Bulloch Co.	8/1/79	9/3/81	<2
WX 551	Victoria Bryan State Park, #305905855	1/29/80	9/3/81	<1
WX 552	Bedsole's MHP, #308521490, Lamar County	4/17/80	9/3/81	<1
WX 553	Walden MHP, Lot 26, #406527152	8/23/79	9/3/81	2 ± 2
WX 554	City of Tallulah Falls, #311910689	5/17/78	9/3/81	<1

Table 20 (cont'd)

Sample No.	Location	Date Collected	Date Received	Gross alpha, pCi/l
WX 555	Gold Bond Building Prod., #302502619	4/9/79	9/3/81	<2
WX 556	#412119538	6/28/79	9/3/81	2 ± 1
WX 557	Calvary Water Pump, #406510444	3/14/79	9/3/81	2 ± 1
WX 558	Holland's Folly S/D, #304704493	6/19/79	9/3/81	<2
WX 559	US 41 MHP, #301100676	11/9/77	9/3/81	<2
WX 560	Fort Mountain State Park, #310509950, Murray	2/19/80	9/3/81	<2
WX 561	Crooked River State Park #302001659	6/28/79	9/3/81	<4
WX 562	#306005930	1/25/79	9/3/81	<1
WX 563	Cabana Village MHP, #304714183	9/17/79	9/3/81	1 ± 1
WX 564	#409833210	2/6/80	9/3/81	<4
WX 565	#303720510	6/28/79	9/3/81	2 ± 1
WX 566	City of Eastman, #304504268, Dodge Co.	11/7/79	9/3/81	1 ± 1
WX 567	Twin Acres S/D, #413621665	3/8/79	9/3/81	2 ± 1
WX 568	Highfalls State Park, #301209773, Monroe Co.	6/6/79	9/3/81	2 ± 1

-
- Notes:
- a Ra-226 analysis is in process.
 - b Ra-228 analysis is in process.
 - c Results of Ra-228 analysis (pCi/l): WX 507, <1; WX 529, <1; WX 531, <1.
 - d Results of Ra-226 analysis (pCi/l): WX 507, <0.1; WX 515, 0.6; WX 525, 2.8; WX 529, 0.2; WX 531, 16.2; WX 532, 0.4.

Table 21

Fallout from Chinese Atmospheric Nuclear Test of
October 16, 1980, Airborne Particles - State Building Samples

Sample No.	Sample date, 1981	Volume, m ³	Gross beta, pCi/m ³	Radionuclide concentration, fCi/m ³							
				Be-7	Zr-95	Nb-95	Ru-103	Ru-106	Cs-137	Ce-141	Ce-144
S 1660	9/2-16	3,024	0.042	34	<1	1	<1	<1	<1	<1	<2
S 1672	9/16-29	2,817	0.045	40	<1	<1	<1	<1	<1	<1	<2

-
- Notes: 1. Gross beta activity was measured 6 hours after collection and includes Rn-220 daughters. Be-7 is also of natural origin. Among the shorter-lived fission products that were searched for are I-131 and Ba-140.
2. The filters are 12.5-cm-dia. charcoal-impregnated pads.

Table 22

Fallout from Chinese Atmospheric Nuclear Test
in Rainwater

<u>Sample No.</u>	<u>Sampling date, 1981</u>	<u>Location</u>	<u>Gross beta, pCi/l</u>	<u>Cs-137 concentration, pCi/l</u>
S 1651	9/3	Health Building	19 ± 2	<20
S 1661	9/17	Health Building	3 ± 2	<20

Note: 1. A 500-ml sample was analyzed for man-made photon-emitting radio-nuclides. None were found.

Table 23

Exposure Rates at Nuclear Facilities
Measured with TLDs

DAWSON FOREST WILD LIFE MANAGEMENT AREA ... 810617-810914: 89 DAYS

TLD#	MR	MICRR/HR	MR/YR	
1.0	18.9	8.9	77.6	
(+-)	2.1	1.0	8.8	
2.0	23.3	10.9	95.5	
(+-)	2.4	1.1	9.7	
3.0	16.3	7.6	66.8	
(+-)	2.2	1.0	9.1	
4.0	17.9	8.4	73.2	
(+-)	1.9	0.9	7.8	
5.0	17.3	8.1	70.8	
(+-)	1.9	0.9	7.6	
6.0	17.5	8.2	71.9	
(+-)	1.8	0.8	7.3	
7.0	19.5	9.1	80.1	
(+-)	2.5	1.2	10.1	
8.0	67.8	31.8	278.2	
(+-)	8.9	4.2	36.5	... <> 95% NORMAL DIST.
9.0	15.6	7.3	63.9	
(+-)	2.0	0.9	8.1	
10.0	15.7	7.3	64.3	
(+-)	2.4	1.1	9.8	
NET, AVG.:	23.0	10.8	94.2	
(+-)	31.8	14.9	130.6	

Table 23 (cont'd)

DUKE POWER NUCLEAR PLANT OCONEE ... 810624-810918: 86 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0	20.7	10.0	87.9
(+-)	3.0	1.4	12.6
2.0	19.6	9.5	83.4
(+-)	2.9	1.4	12.3
4.0	8.3	4.0	35.4
(+-)	1.1	0.5	4.8
5.0	13.5	6.6	57.4
(+-)	1.8	0.9	7.7
6.0	13.0	6.3	55.2
(+-)	2.1	1.0	9.0
7.0	15.2	7.4	64.5
(+-)	2.3	1.1	9.6
8.0	16.1	7.8	68.5
(+-)	2.1	1.0	9.0
NET. AVG.:	15.2	7.4	64.6
(+-)	8.4	4.1	35.6

Table 23 (cont'd)

STATE BKG - DAWSONVILLE ... 810617-810914: 89 DAYS

TLD#	MR	MICRR/HR	MR/YR
17.0	12.0	5.6	49.2
(+-)	2.5	1.2	10.3
18.0	13.7	6.4	56.2
(+-)	2.3	1.1	9.4
NET. AVG.:	12.9	6.0	52.7
(+-)	2.4	1.1	9.9

Table 23 (cont'd)

STATE BKG - OCONEE ... 810624-810918: 86 DAYS

TLD#	MR	MICRR/HR	MR/YR
19.0	18.8	9.1	79.6
(+-)	2.5	1.2	10.7
21.0	11.2	5.4	47.7
(+-)	1.8	0.9	7.6
NET. AVG.:	15.0	7.3	63.7
(+-)	10.6	5.2	45.2

Project # E-567 677 to

Georgia Institute of Technology

A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA
SCHOOL OF NUCLEAR ENGINEERING AND HEALTH PHYSICS
ATLANTA, GEORGIA 30332

ENVIRONMENTAL RADIATION LABORATORY
205 Old Civil Engineering Building

(404) 894-2375

M E M O R A N D U M

DATE: November 23, 1981

TO: Mr. William Cline, Program Manager
Environmental Radiation Program, EPD, DNR

FROM: Bernd Kahn, Director *Bernd Kahn*
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the Environmental
Radiation Laboratory, October, 1981

The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental monitoring at nuclear facilities by DNR staff	Tables 1-11
Monitoring fallout	Tables 12-13

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity attributed to the facility:

Tables 9, 10 and 11 -- H-3 in nearby river water, in milk and in a water supply downstream from the Savannah River Plant.

All other radionuclides in Tables 1-11 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

Community water systems continued to be monitored for gross alpha particle activity and radium concentrations. The computer program for storing, compiling and reporting this information is currently being changed by ERP/EPD staff, hence data are not being reported this month. The reprogramming should be completed within a month so that this information can be presented in the Monthly Report for November 1981.

No fallout radionuclides were observed in airborne particles or in rainwater collected during the month. The lower limits of detection are shown in Tables 12 and 13.

Table 1

Radioactivity Levels in Quarterly Composite Air Filters
from the Environment of the Hatch Nuclear Plant

<u>Samples No.</u>	<u>Location</u>	<u>Dates, 1981</u>	<u>Volume, m³</u>	<u>Radionuclide concentration, fCi/m³</u>				
				<u>Zr-95</u>	<u>Nb-95</u>	<u>Cs-137</u>	<u>Ce-144</u>	<u>Be-7</u>
B 384, 414, 421*	Substation	July- Sept	818	3	7	<2	7	63
B 386, 416, 423*	Plant Hatch	July- Sept	817	<8	<4	<3	<10	<50

-
- Notes: 1. Three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected. Decay was computed from midpoint of period.

Table 2

Radioactivity Levels in Milk Samples from
the Environment of the Hatch Nuclear Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B 427*	Johnson Brothers	<5	2	<10	1.8	300 ± 200	<0.1
B 433*	Williamson	<5	8	<10	1.9	<200	<0.1
B 434*	GSP	<5	3	<10	1.5	<200	<0.1

-
- Notes: 1. Samples B 427 and B 434 were collected on September 28, 1981; B 433 was collected on October 15, 1981.
2. No I-131 (<15 pCi/l) or Ba-140 were detected.

Table 3

Radioactivity Level in Vegetable Sample from the
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137 concentration, pCi/kg</u>
B 428	Black-eyed peas, 2 mi WSW of plant	<20

-
- Notes: 1. Sample was collected on September 29, 1981.
2. No other man-made photon-emitting radionuclides
were detected.

Table 4
Radioactivity Levels in Air Samples from the
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m³</u>	<u>Radionuclide concentration, pCi/m³</u>	
				<u>I-131</u>	<u>Gross beta</u>
B 429*	Cartridge	Substation	310	<0.01	---
B 430*	Filter paper	Substation	310	---	0.019
B 431*	Cartridge	Plant	310	<0.01	---
B 432*	Filter paper	Plant	310	---	0.011

Notes: 1. Samples were collected on October 14, 1981, after 8-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 5

Radioactivity Levels in Quarterly Composite Air Filters
from the Environment in Georgia of the Farley Nuclear Plant

<u>Samples No.</u>	<u>Location</u>	<u>Dates, 1981</u>	<u>Volume, m³</u>	<u>Radionuclide concentration, fCi/m³</u>				
				<u>Zr-95</u>	<u>Nb-95</u>	<u>Cs-137</u>	<u>Ce-144</u>	<u>Be-7</u>
F 323, 343, 360*	Blakely Water Tower	July- Sept	3150	<3	9	<1	5	72
F 325, 355, 362*	Great South- ern Airport	July- Sept	3160	<3	9	<1	4	52

-
- Notes: 1. Three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected. Decay was computed from midpoint of period.

Table 6

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m³</u>	<u>Radionuclide concentration, pCi/m³</u>	
				<u>I-131</u>	<u>Gross beta</u>
F 363*	Cartridge	Blakely Water Tower	1045	<0.008	---
F 364*	Filter paper	Blakely Water Tower	1045	---	0.017
F 365*	Cartridge	Great Southern Airport	1059	<0.008	---
F 366	Filter paper	Great Southern Airport	1059	---	0.021

Notes: 1. Samples were collected on October 8, 1981, after 7-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 7

Radioactivity Levels in Sediment Samples from the
Environment in Georgia of the Farley Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg					
		Zr-95	Nb-95	Cs-137	K-40	Ra-226	Ra-228
F 367*	Upstream, RSB-SI-092281	93	150	101	4,600	1,100	1,000
F 368*	Downstream, RSI-SI-092281	<40	<20	<20	1,600	300	200

-
- Notes: 1. Samples were collected on September 22, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 8

Radioactivity Level in Vegetable Samples from the
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137 concentration, pCi/kg</u>
SR 346	Turnip greens, 25 mi W of plant	<20
SR 347	Turnips, 25 mi W of plant	<20

-
- Notes: 1. Samples were collected on October 7, 1981.
2. No other man-made photon-emitting radionuclides
were detected.

Table 9

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l	I-131, pCi/l
SR 348	Langley rainwater	---	---	<200	---
SR 349	Augusta rainwater	---	---	<200	---
SR 350	Hwy 301 rainwater	---	---	<200	---
SR 351	S. Richmond rain- water	---	---	<200	---
SR 352	River #2	<2	<2	200 \pm 200	<0.1
SR 353	River #10	<2	<2	2700 \pm 200	<0.1

-
- Notes: 1. Samples were collected August 27-September 25 (SR 348-351) and October 6, 1981 (SR 352-353).
2. No man-made photon-emitting radionuclides (Cs-137 <20 pCi/l) were detected in samples SR 352 and 353.

Table 10

Radioactivity Levels in Milk Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>
SR 354	McMurry	<5	<2	<10	1.5	500 ± 200
SR 355	Boyce	<5	<2	<10	1.6	400 ± 200
SR 356	Dixon	<5	3	<10	1.6	400 ± 200

Notes: 1. Samples were collected on October 8, 1981.
2. No I-131 (<15 pCi/l) or Ba-140 were detected.

Table 11

Radioactivity Levels in Water Sample from the
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131 pCi/l</u>
SR 357	Port Wentworth I & D Water Supply	<2	2 ± 1	$2,700 \pm 200$	<0.1

Notes: 1. Sample was collected October 6-13, 1981.
2. No man-made photon-emitting radionuclides were detected
(Cs-137 <20 pCi/l).

Table 12

Fallout from Chinese Atmospheric Nuclear Test of
October 16, 1980, Airborne Particles - State Building Samples

Sample No.	Sample date, 1981	Volume, m ³	Gross beta, pCi/m ³	Radionuclide concentration, fCi/m ³							
				Be-7	Zr-95	Nb-95	Ru-103	Ru-106	Cs-137	Ce-141	Ce-144
S 1686	9/29-10/29	6,478	0.016	5	<0.4	<0.4	<0.4	<2	<0.4	<0.4	<2

-
- Notes: 1. Gross beta activity was measured 6 hours after collection and includes Rn-220 daughters. Be-7 is also of natural origin. Among the shorter-lived fission products that were searched for are I-131 and Ba-140.
2. The filters are 12.5-cm-dia. charcoal-impregnated pads.

Table 13

Fallout from Chinese Atmospheric Nuclear Test
in Rainwater

<u>Sample No.</u>	<u>Sampling date, 1981</u>	<u>Location</u>	<u>Gross beta, pCi/l</u>	<u>Cs-137 concentration, pCi/l</u>
S 1687	10/29	Health Building	<1	<20

Note: 1. A 500-ml sample was analyzed for man-made photon-emitting radio-nuclides. None were found.

Off Ppts (over)
E-36-672

Georgia Institute of Technology
A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA
SCHOOL OF NUCLEAR ENGINEERING AND HEALTH PHYSICS
ATLANTA, GEORGIA 30332

ENVIRONMENTAL RADIATION LABORATORY
205 Old Civil Engineering Building

(404) 894-2375

M E M O R A N D U M

DATE: December 18, 1981

TO: Mr. William Cline, Program Manager
Environmental Radiation Program, EPD, DNR

FROM: Bernd Kahn, Director *Bernd Kahn*
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the Environmental
Radiation Laboratory, November, 1981

The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental monitoring at nuclear facilities by DNR staff	Tables 1-20
Monitoring by DHR staff	Tables 21-22
Monitoring fallout	Table 23
TLD data	Table 24

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity attributed to the facility:

Table 5 -- Co-60 and Zn-65 in clams downstream from the Hatch Plant
Tables 16, 17, 18, 19, and 20 -- H-3 in nearby river water, milk,
vegetation and a water system down-
stream from the Savannah River
Plant

All other radionuclides in Tables 1-11 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

Smears (Table 21) and soil samples (Table 22) collected by DHR Staff contained no elevated radioactivity levels.

Community water systems continued to be monitored for gross alpha particle activity and radium concentrations. The computer program for storing, compiling and reporting this information is currently being changed by ERP/EPD staff, hence data have not been reported last month and this month. The reprogramming should be completed within a month so that this information can be presented in the next Monthly Report.

No fallout radionuclides were observed in airborne particles collected during the month. The lower limits of detection are shown in Table 23.

External radiation exposure rates were at background levels with one exception in the environment in Georgia at the Savannah River Plant, Plant Hatch, and the Georgia Tech Research Reactor (see Table 24). Levels at SRP ranged from 31 to 55 mR/year for quarter-year and half-year measurements. At Plant Hatch, they ranged from 26 to 49 mR/year in quarter-year measurements. At the Georgia Tech Research Reactor, one dosimeter showed an elevated exposure rate of 134 mR/yr; all others were between 50 and 85 mR/yr for quarter-year exposures. The TLD that shows an elevated exposure rate is at the fence beyond a small building where radioactive sources are stored. Brief measurements with a PIC confirmed the elevated exposure rate.

Table 1
Radioactivity Levels in Air Samples from the
Environment of the Hatch Nuclear Plant

Sample No.	Sample type	Location and date	Volume, m ³	Radionuclide concentration, pCi/m ³	
				I-131	Gross beta
B 435*	Air cartridge	Dead River Road 10/22-29	280	<0.05	---
B 436*	Paper filter	Dead River Road 10/22-29	280	---	0.015
B 467*	Air cartridge	Substation 11/9-16	273	<0.05	---
B 468*	Paper filter	Substation 11/9-16	273	---	0.014
B 469*	Air Cartridge	Plant Hatch 11/9-16	272	<0.05	---
B 470*	Paper filter	Plant Hatch 11/9-16	272	---	0.013
B 471*	Air cartridge	Dead River Road 11/9-16	272	<0.05	---
B 472*	Paper filter	Dead River Road 11/9-16	272	---	0.013

Notes: 1. Samples were collected after 7-day sampling for indicated period.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 2

Radioactivity Levels in Soil Samples from the
Environment of the Hatch Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg			
		Cs-137	K-40	Ra-226	Ra-228
B 437	TLD #12	86	700	1,200	900
B 438	TLD #20	170	700	1,000	500
B 439	TLD #24	52	2,800	800	800
B 440	TLD #25	475	200	400	300
B 441	TLD #28	170	2,700	1,400	1,500
B 442	TLD #33	290	700	700	900
B 443	TLD #37	300	600	<200	200
B 444	TLD #44	320	<200	400	200

-
- Notes: 1. Samples were collected on November 19, 1981.
2. No other man-made photon-emitting radionuclides were detected (Nb-95: <50 pCi/kg).

Table 3

Radioactivity Levels in Grass Samples from the
Environment of the Hatch Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg				
		Zr-95	Nb-95	Cs-137	Ce-144	Be-7
B 445	TLD #5	<80	85	<50	<300	5,000
B 446	TLD #6	<50	54	52	190	3,300
B 447	TLD #7	<50	105	73	<160	7,000
B 448	TLD #12	<80	50	73	<300	4,800
B 449	TLD #20	<100	<70	<60	<300	<600
B 450	TLD #25	<50	<30	<30	130	2,600
B 451	TLD #28	<100	150	<60	<300	2,900
B 452	TLD #37	<50	44	48	<160	4,100
B 453	TLD #44	<80	48	330	<300	6,100
B 466	TLD #33	<80	68	42	240	3,900

-
- Notes: 1. Samples were collected on November 19, 1981.
2. No other man-made photon-emitting radionuclides were detected.
Be-7 is formed in nature.

Table 4
Radioactivity Levels in Water Samples from
the Environment of the Hatch Nuclear Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l
B 454	Altamaha R, downstream	<2	4 ± 2	<200
B 455	Altamaha R, upstream	<2	3 ± 2	<200
B 456	TLD #1, ground	4 ± 2	3 ± 2	<200
B 457	TLD #3, ground	3 ± 2	4 ± 2	<200
B 458	TLD #37, ground	2 ± 1	3 ± 2	<200
B 459	NRC TLD #6, ground	4 ± 2	4 ± 2	<200
B 460	Dennis Grocery, ground	3 ± 2	3 ± 2	<200
B 461	Hatch Visitor Center, ground	<2	3 ± 2	<200
B 462	Deen's Landing, ground	2 ± 2	2 ± 2	<200
B 463	Baxley drinking, ground	4 ± 3	3 ± 2	<200
B 464	Baxley DOT, ground	<3	2 ± 2	<200
B 465	1 mi S of plant, ground	2 ± 1	5 ± 1	<200

Note: Samples were collected on November 19, 1981.

Table 5

Radioactivity Levels in Clam Samples from the
Environment of Hatch Nuclear Plant

Sample No.	Type	Location	Radionuclide concentration, pCi/kg		
			Co-60	Zn-95	Ce-141
B 473*	Clams	GPC - HNP #170, Alta- maha R, upstream	<15	<40	<30
B 474*	Clams	GPC -HNP #172, Alta- maha R, downstream	21	65	30

Notes: 1. Samples were collected on November 9, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 6

Radioactivity Level in Vegetable Samples from the
Environment of Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137 concentration, pCi/kg</u>
B 475	Turnip greens, 10 mi SE of plant	35
B 476	Turnips, 10 mi SE of plant	<20

-
- Notes: 1. Samples were collected on Novmeber 18, 1981.
2. No other man-made photon-emitting radionuclides
were detected.

Table 7

Background Radioactivity Levels in Soil Sample
from the Environment in Georgia

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>			
		<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
SB 5	Hatch-TLD #6	160	1,400	1,000	1,500

-
- Notes: 1. Sample was collected on November 19, 1981.
2. No other man-made photon-emitting radionuclides were detected (Nb-95: <50 pCi/kg).

Table 8

Background Radioactivity Levels in Grass Samples
from the Environment in Georgia

Sample No.	Location	Radionuclide concentration, pCi/kg				
		Zr-95	Nb-95	Cs-137	Ce-144	Be-7
SB 6	Hatch - TLD #6	<70	43	<40	150	2,600

-
- Notes: 1. Samples were collected on November 19, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 9

Radioactivity Levels in Water Samples from the
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
F 369* 3rd quarter	Chattahoochee R, upstream	<2	<2	<200
F 370* 3rd quarter	Chattahoochee R, downstream	<2	<3	<200

-
- Notes: 1. Samples were collected by Alabama Power Company staff on August 15, 1981 and received at the laboratory on December 1, 1981.
2. No photon-emitting radionuclides were detected (Cs-137: <20 pCi/l).

Table 10

Radioactivity Levels in Soil Samples from the
Environment of the Georgia Tech Research Reactor Center

Sample No.	Location	Radionuclide concentration, pCi/kg			
		Cs-137	K-40	Ra-226	Ra-228
GT 102	TLD #2	650	16,400	1,600	1,200
GT 103	TLD #5	510	13,400	1,500	1,000
GT 104	TLD #6	970	11,000	2,400	1,000
GT 105	TLD #8	960	16,600	1,300	800
GT 106	TLD #11	140	13,800	1,600	1,000

-
- Notes: 1. Samples were collected on November 24, 1981.
2. No other man-made photon-emitting radionuclides were detected (Nb-95: <50 pCi/kg).

Table 11

Radioactivity Levels in Vegetation Samples from the
Environment of the Georgia Tech Research Reactor Center

Sample No.	Location	Radionuclide concentration, pCi/kg				
		Zr-95	Nb-95	Cs-137	Ce-144	Be-7
GT 107	Acorns, TLD #5	<50	<30	<30	<200	<300
GT 108	Mixed vegetation, TLD #2	<70	67	<40	240	1,200
GT 109	Grass, TLD #5	<50	67	<30	160	1,100
GT 110	Leaves, TLD #6	<70	87	<40	300	5,100
GT 111	Grass, TLD #8	<50	<30	<30	<200	1,300
GT 112	Grass, TLD #11	<30	33	17	130	1,010

-
- Notes: 1. Samples were collected on November 24, 1981.
2. No other man-made photon-emitting radionuclides were detected.
Be-7 is formed in nature.

Table 12

Radioactivity Levels in Waste Water at the
Georgia Tech Research Reactor Center

Sample No.	Radioactivity concentration, pCi/l						
	Gross alpha	Gross beta	H-3	Co-60	Sr-89	Sr-90	Cs-137
GT 113	<6	680 ± 20	16,700 ± 300	29	in process		50

Note: Sample was collected on November 24, 1981.

Table 13

Radioactivity Levels in Water Sample from the
Environment of the Georgia Tech Research Reactor

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
GT 114	Standing water, TLD #11	<4	19 ± 4	<200

Note: Sample was collected November 24, 1981.

Table 14

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
SR 301, 316 and 344	I&D Water Supply Port Wentworth	<5	<2
SR 302, 318 and 334	River #2	<5	<2
SR 303, 319, and 335	River #10	<5	<2

-
- Notes: 1. A composite was prepared using equal amounts of each sample.
2. These samples were collected in July, August and September 1981, respectively. Other results for these samples are given in the Monthly Reports for July, August and September 1981.

Table 15

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Savannah River Plant

Sample No.	Sample type	Location and date	Volume, m ³	Radionuclide concentration, pCi/m ³	
				I-131	Gross beta
SR 358*	Air cartridge	Girard; 9/28-10/14	1593	<0.02	---
SR 359*	Filter paper	Girard; 9/28-10/14	1593	---	0.004
SR 360*	Air cartridge	Plant Vogtle; 9/28- 10/14	1644	<0.02	---
SR 361*	Filter paper	Plant Vogtle; 9/28- 10/14	1644	---	0.003
SR 362*	Air cartridge	Youth Development Ctr; Augusta; 10/14-21	2624	<0.01	---
SR 363*	Filter paper	Youth Development Ctr; Augusta; 10/14-21	2624	---	0.003
SR 364*	Air cartridge	Girard; 10/14-27	1333	<0.02	---
SR 365*	Filter paper	Girard; 10/14-27	1333	---	0.003
SR 366*	Air cartridge	Plant Vogtle; 10/14-27	1456	<0.01	---
SR 367*	Filter paper	Plant Vogtle; 10/14-27	1456	---	0.005
SR 368*	Air cartridge	Hancock Landing; 9/28-10/14	1644	<0.02	---
SR 369*	Filter paper	Hancock Landing; 9/28-10/14	1644	---	0.004
SR 385*	Air cartridge	Plant Vogtle; 10/27-11/24	1035	<0.01	---
SR 386*	Filter paper	Plant Vogtle; 10/27-11/24	1035	---	0.008

Table 15 (cont'd)

Sample No.	Sample type	Location and date	Volume, m ³	Radionuclide concentration, pCi/m ³	
				I-131	Gross beta
SR 387*	Air cartridge	Youth Development Ctr; Augusta; 10-21-11/24	1135	<0.02	---
SR 388*	Filter paper	Youth Development Ctr; Augusta; 10/21-11/24	1135	---	0.015
SR 389*	Air cartridge	Girard; 10/27- 11/24	938	<0.01	---
SR 390*	Filter paper	Girard; 10/27- 11/24	938	---	0.013

-
- Notes: 1. Samples were collected for indicated periods.
 2. No other man-made photon-emitting radionuclides were detected in the cartridges except Cs-137 in SR 358, 366, 387, and 389 (0.002-0.003 pCi/m³).

Table 16

Radioactivity Levels in Milk Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SRP 370	Boyce	<5	2	<10	1.3	600 ± 200	<0.1
SRP 371	Dixon	<5	2	<10	1.6	<200	<0.1
SRP 372	Gracewood	<5	2	<10	1.6	400 ± 200	<0.1

Notes: 1. Samples were collected on November 5, 1981.
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 17

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l	I-131, pCi/l
SR 373	River #2; 11-3	<3	2 ± 2	<200	1.4 ± 0.4
SR 374	River #10; 11-3	<2	2 ± 2	4000 ± 200	<0.4
SR 375	Augusta rainwater; 11-5	---	---	600 ± 200	---
SR 376	Perkins rainwater; 11-4	---	---	800 ± 200	---
SR 377	S. Richmond rain- water; 11-5	---	---	1700 ± 200	---
SR 378	Hwy 301 rainwater; 11-4	---	---	<200	---
SR 379	Waynesboro rainwater; 11-5	---	---	3000 ± 200	---
SR 384	Hwy 301; river; October composite	---	---	3700 ± 200	<3

- Notes: 1. Samples were collected on November 4, 1981.
2. Samples SR 373 and 374 contained no man-made photon-emitting radio-nuclides (Cs-137 <10 pCi/l).

Table 18

Radioactivity Level in Vegetable Samples from the
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137 concentration, pCi/kg</u>	<u>H-3, pCi/l</u>
SR 380	Turnip greens, Sylvania	49	800 ± 200
SR 381	Turnip greens, Beach Island, SC	<10	900 ± 200
SR 382	Turnips, Beach Island, SC	<10	<200

Notes: 1. Samples were collected on November 9, 1981.
2. No other man-made photon-emitting radionuclides
were detected.

Table 19

Radioactivity Levels in Water Samples from the
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 383	Port Wentworth I&D Water Supply	<2	3 ± 2	$3,500 \pm 200$	<0.4

Note: 1. Samples was collected November 4-10, 1981.
2. No man-made photon-emitting radionuclides were detected (Cs-137:
<10 pCi/l).

Table 20

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 391	Savannah R at North Hwy 301	<2	3 ± 2	5300 ± 300	<2

Note: Sample was collected October 27 - November 24, 1981.

Table 21

Radioactivity in Soil Samples at Atlanta

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>			
		<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
S 1692	In front of pine and by water fall	690	10,300	1,200	800
S 1693	Background	270	8,900	1,400	1,000

Note: Samples were collected at 849 Stokeswood Avenue, S.E. on November 5, 1981 by DHR staff.

Table 22

Radioactivity in Smears from Surplus Property
Warehouse, Milledgeville

<u>Sample No.</u>	<u>Identification</u>	<u>H-3 pCi/100 cm²</u>	<u>C-14 pCi/100cm²</u>
S 1694	#1	<3	<0.3
S 1695	#2	<3	<0.3
S 1696	#3	<3	<0.3
S 1697	#4	<3	<0.3
S 1698	#5	<3	<0.3
S 1699	#6	<3	<0.3
S 1700	#7, background	<3	<0.3

Note: Samples were collected on November 4, 1981 by DHR staff.

Table 23

Fallout from Chinese Atmospheric Nuclear Test of
October 16, 1980, Airborne Particles - State Building Samples

Sample No.	Sample date, 1981	Volume, m ³	Gross beta, pCi/m ³	Radionuclide concentration, fCi/m ³							
				Be-7	Zr-95	Nb-95	Ru-103	Ru-106	Cs-137	Ce-141	Ce-144
S 1718	10/29-12/2	6,478	<0.01	16	<0.5	<0.3	<0.4	<2	<0.3	<0.3	<1

-
- Notes: 1. Gross beta activity was measured 6 hours after collection and includes Rn-220 daughters. Be-7 is also of natural origin. Among the shorter-lived fission products that were searched for are I-131 and Ba-140.
2. The filters are 12.5-cm-dia. charcoal-impregnated pads.

Table 24

Exposure Rates at Nuclear
Facilities Measured with TLDs

TIME BKG ... 010527-811204: 191 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0	33.6	7.3	64.2
(+-)	4.0	0.9	7.7
NET. AVG.:	33.6	7.3	64.2
(+-)	2.0E+50	4.4E+49	3.8E+50

Table 24 (cont'd)

SAVANNAH RIVER PLANT: USDOE ... 810527-811204: 191 DAYS

TLD#	MR	MICRR/HR	MR/YR
2.0 (+-)	22.3 4.3	4.9 0.9	42.6 8.2
4.0 (+-)	21.8 3.0	4.8 0.7	41.7 5.8
6.0 (+-)	19.4 2.0	4.2 0.4	37.0 3.7
7.0 (+-)	18.9 1.8	4.1 0.4	36.1 3.4
8.0 (+-)	18.7 2.7	4.1 0.6	35.8 5.1
9.0 (+-)	18.7 4.2	4.1 0.9	35.8 8.1
10.0 (+-)	23.0 2.1	5.0 0.5	43.9 4.0
11.0 (+-)	17.4 2.1	3.8 0.5	33.2 4.0
12.0 (+-)	16.1 1.6	3.5 0.3	30.8 3.0
13.0 (+-)	19.2 1.6	4.2 0.4	36.7 3.1
14.0 (+-)	22.4 3.7	4.9 0.8	42.8 7.1
16.0 (+-)	22.7 3.7	5.0 0.8	43.4 7.1
18.0 (+-)	16.4 1.9	3.6 0.4	31.3 3.6
21.0 (+-)	17.3 3.1	3.8 0.7	33.0 5.9
22.0 (+-)	16.9 1.5	3.7 0.3	32.4 3.0
23.0 (+-)	28.9 5.7	6.3 1.2	55.3 10.8 ... <> 95% NORMAL DIST.
24.0 (+-)	19.8 3.3	4.3 0.7	37.9 6.3
25.0 (+-)	20.4 2.5	4.5 0.5	39.0 4.7
NET. AVG.: (+-)	20.0 6.3	4.4 1.4	38.3 12.0

Table 24 (cont'd)

STATE BKG ... 810805-811119: 106 DAYS

TLD#	MR	MICRR/HR	MR/YR
5.0	15.8	6.2	54.4
(+-)	1.8	0.7	6.3
6.0	12.3	4.8	42.3
(+-)	1.8	0.7	6.1
7.0	11.6	4.6	40.0
(+-)	1.4	0.6	4.8
8.0	9.4	3.7	32.5
(+-)	1.3	0.5	4.4
NET. AVG.:	12.3	4.8	42.3
(+-)	5.3	2.1	18.2

Table 24 (cont'd)

GEORGIA TECH RESEARCH REACTOR ... 810820-811124: 96 DAYS

TLD#	MR	MICRR/HR	MR/YR	
1.0 (+-)	20.7 2.4	9.0 1.0	78.7 9.0	
2.0 (+-)	19.3 2.2	8.4 1.0	73.4 8.3	
3.0 (+-)	18.6 2.2	8.1 1.0	70.6 8.4	
4.0 (+-)	22.3 3.2	9.7 1.4	85.0 12.0	
5.0 (+-)	17.6 2.5	7.7 1.1	67.1 9.5	
6.0 (+-)	17.3 2.6	7.5 1.1	66.0 9.9	
7.0 (+-)	14.5 1.8	6.3 0.8	55.0 6.9	
8.0 (+-)	15.0 2.3	6.5 1.0	57.0 8.9	
9.0 (+-)	35.2 4.0	15.3 1.8	133.7 15.3	... <> 95% NORMAL DIST.
10.0 (+-)	15.2 2.6	6.6 1.1	57.8 10.0	
11.0 (+-)	13.2 2.1	5.7 0.9	50.3 8.0	
12.0 (+-)	16.2 2.7	7.0 1.2	61.5 10.4	
13.0 (+-)	20.5 3.4	8.9 1.5	77.8 12.9	
14.0 (+-)	16.4 2.7	7.1 1.2	62.4 10.2	
NET. AVG.: (+-)	18.7 10.8	8.1 4.7	71.2 41.1	

TLD#	MR	MICRR/HR	MR/YR
1.0 (+-)	11.8 2.1	4.6 0.8	48.7 7.4
2.0 (+-)	11.4 2.0	4.5 0.8	39.2 6.9
3.0 (+-)	13.0 1.4	5.1 0.5	44.7 4.7
4.0 (+-)	8.7 1.6	3.4 0.6	38.0 5.5
5.0 (+-)	10.8 1.3	4.2 0.5	37.2 4.3
6.0 (+-)	10.9 2.1	4.3 0.8	37.5 7.2
7.0 (+-)	11.0 1.8	4.3 0.7	37.8 6.2
8.0 (+-)	8.7 1.7	3.4 0.7	38.0 5.8
9.0 (+-)	9.1 1.5	3.6 0.6	31.5 5.2
11.0 (+-)	8.7 1.4	3.4 0.6	38.0 4.9
12.0 (+-)	12.2 1.5	4.8 0.6	42.0 5.1
13.0 (+-)	14.3 1.7	5.6 0.7	49.1 5.9
15.0 (+-)	10.8 1.5	3.9 0.6	34.3 5.2
16.0 (+-)	10.3 1.7	4.1 0.7	35.5 6.0
18.0 (+-)	10.7 1.9	4.2 0.7	37.8 6.5
20.0 (+-)	10.3 1.6	4.1 0.6	35.5 5.6
21.0 (+-)	9.3 2.1	3.7 0.8	32.0 7.1
22.0 (+-)	11.9 1.9	4.7 0.7	41.1 6.6
23.0 (+-)	9.1 1.3	3.6 0.5	31.3 4.5
24.0 (+-)	10.2 1.7	4.0 0.7	35.2 5.8

... <> 95% NORMAL DIST.

Table 24 (cont'd)

25.0 (+-)	7.7 1.5	3.8 0.6	26.7 5.1
26.0 (+-)	8.2 1.5	3.2 0.6	28.2 5.3
27.0 (+-)	11.4 1.5	4.5 0.6	39.3 5.2
28.0 (+-)	10.0 1.4	3.9 0.5	34.6 4.8
29.0 (+-)	8.2 1.8	3.2 0.7	28.3 6.3
30.0 (+-)	9.5 1.4	3.7 0.5	32.8 4.8
31.0 (+-)	9.0 1.4	3.5 0.6	30.8 4.9
32.0 (+-)	10.2 1.3	4.0 0.5	35.0 4.6
33.0 (+-)	11.4 1.4	4.5 0.6	39.4 4.9
35.0 (+-)	11.8 1.7	4.6 0.7	40.6 5.9
36.0 (+-)	7.4 1.3	2.9 0.5	25.6 4.6
37.0 (+-)	8.0 1.2	3.4 0.5	30.2 4.3
38.0 (+-)	7.5 1.7	3.0 0.7	25.9 5.8
39.0 (+-)	10.0 1.9	3.9 0.7	34.6 6.4
40.0 (+-)	7.9 1.6	3.1 0.6	27.4 5.6
41.0 (+-)	11.7 1.8	4.6 0.7	40.4 6.1
43.0 (+-)	9.7 1.7	3.8 0.7	33.5 5.7
NET. AVG.: (+-)	10.1 3.2	4.0 1.3	34.7 11.0

E26-677

Georgia Institute of Technology

A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA
SCHOOL OF NUCLEAR ENGINEERING AND HEALTH PHYSICS
ATLANTA, GEORGIA 30332

ENVIRONMENTAL RADIATION LABORATORY
205 Old Civil Engineering Building

(404) 894-2375

MEMORANDUM

DATE: January 22, 1982

TO: Program Manager
Environmental Radiation Program, EPD, DNR

FROM: Bernd Kahn, Director *Bernd Kahn*
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the Environmental
Radiation Laboratory, December 1981

The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental monitoring at nuclear facilities by DNR staff	Tables 1-27
Monitoring by DHR staff	Table 28
Monitoring by DNR staff of Community Water Systems	Table 29
Monitoring fallout	Tables 30-31
TLD radiation data at nuclear facilities obtained by DNR staff	Table 32

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity attributed to the facility:

Tables 5 and 7 -- Co-60 in grass and soil samples at Dawson Forest
Tables 24-26 -- H-3 in water sampled near the Savannah River Plant

All other radionuclides in Tables 1-27 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

A smear of equipment that had been used at the Crystal River Nuclear Power Plant showed no gamma-emitting radionuclides (see Table 28).

Community water supply samples that contain elevated radium concentrations -- Ra-226 more than 3 pCi/l or Ra-226 plus Ra-228 more than 5 pCi/l -- are listed in Table 29. Listing of all analyzed water samples awaits preparation of a computer program to list these data.

No fallout from tests of nuclear devices in the atmosphere was detected in either airborne particles (Table 30) or rainwater (Table 31).

No significantly elevated exposure rates were observed with TLD's exposed between three and six months in Georgia near the Farley, Oconee and Sequoyah Nuclear Power Plants. Exposure rates ranged from 28 to 59 mR/yr at Farley, 38 to 72 mR/yr at Oconee, and 30 to 76 mR/yr at Sequoyah.

Table 1

Radioactivity Levels in Quarterly Composite Air Filters
from the Environment of the Hatch Nuclear Plant

<u>Sample Nos.</u>	<u>Location</u>	<u>Dates, 1981</u>	<u>Volume, m³</u>	<u>Cs-137 concentration, fCi/m³</u>
B 430, 468, 486	Substation	Oct-Dec	856	<3
B 432, 470, 484	Plant Hatch	Oct-Dec	853	<3
B 436, 471, 482	Dead River Rd	Oct-Dec	825	<3

-
- Notes: 1. Three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 2

Radioactivity Levels in Milk Samples from
the Environment of the Hatch Nuclear Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B 477	M.V. Head Estate	<5	2	<10	1.6	<200	---
B 478	Johnson Bros	<5	2	6	1.4	<200	---
B 488	Williamson	<5	4	<10	1.9	<200	<0.3
B 489	GSP	<5	2	<6	1.4	<200	<0.3
B 490	Johnson	<5	2	11	1.5	<200	<0.6

-
- Notes: 1. Samples B 477, B 478 were collected on December 15, 1981. Samples B 488-B 490 were collected on December 21, 1981.
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 3

Radioactivity Levels in Grass Samples from the
Environment of the Hatch Nuclear Reactor

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>				
		<u>Zr-95</u>	<u>Nb-95</u>	<u>Cs-137</u>	<u>Ce-144</u>	<u>Be-7</u>
479*	Station #5	<60	32	120	<100	830
480*	Station #17	<60	<30	162	710	4,400
481*	Station #21	<40	<20	22	<100	1,200

-
- Notes: 1. Samples were collected on December 17, 1981.
2. No other man-made photon-emitting radionuclides were detected.
Be-7 is formed in nature.

Table 4

Radioactivity Levels in Air Samples from the
Environment of the Hatch Nuclear Plant

Sample No.	Sample type	Location	Volume, m ³	Radionuclide concentration, pCi/m ³	
				I-131	Gross beta
B 482*	Cartridge	Dead River Road	273	<0.1	---
B 483*	Paper filter	Dead River Road	273	---	0.018
B 484*	Cartridge	Plant Hatch	271	<0.05	---
B 485*	Paper filter	Plant Hatch	271	---	0.012
B 486*	Cartridge	Substation	273	<0.05	---
B 487*	Paper filter	Substation	273	---	0.016

-
- Notes: 1. Samples were collected on December 15, 1981, after 7-day sampling period.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 5

Radioactivity Levels in Grass Samples from the
Environment of the Dawson Forest

Sample No.	Location	Radionuclide concentration, pCi/kg					
		Co-60	Zr-95	Nb-95	Cs-137	Ce-144	Be-7
D 215	COA at road	<40	66	150	90	1100	5,800
D 216	TLD #1, COA	45	65	150	150	1100	8,300
D 217	TLD #5, reactor area	<40	<60	80	58	350	12,000

-
- Notes: 1. Samples were collected on December 30, 1981.
2. No other man-made photon-emitting radionuclides were detected.
Be-7 is formed in nature.

Table 6

Radioactivity Levels in Water Samples from
the Environment of the Dawson Forest

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l
D 218	Stream below reactor area seepage pit	<3	<3	<200
D 219	Anglin residence, groundwater	<3	<3	<200
D 220	Upstream COA, 200' upstream of rock	<3	<3	<200
D 221	Etowah R., upstream	<3	<3	<200
D 222	Morgan residence, surface water	<3	<3	<200
D 223	Morgan residence, groundwater	<3	<3	<200
D 224	Etowah R., downstream	<3	<3	<200
D 225	Downstream COA	<3	<3	<200

Note: Samples were collected on December 30, 1981.

Table 7

Radioactivity Levels in Soil and Sediment Samples
from the Environment of the Dawson Forest

Sample No.	Location	Radionuclide concentration, pCi/kg				
		Co-60	Cs-137	K-40	Ra-226	Ra-228
D 226	TLD #5	320	70	2,000	<200	<200
D 227	TLD #1 COA	2,100	160	12,000	1,500	1,200
D 228	10' NW hot cell door	<70	<70	6,600	1,200	900
D 229	COA at road	450	84	5,300	800	600
D 230	Outside COA 1.5' W of rock	1.1 E6	MDL is approximately 5000 pCi/kg			
D 231	7' SSW of rock at foot of oak tree	7.7 E5	MDL is approximately 5000 pCi/kg			
D 232	5.5' S of rock	9.1 E5	MDL is approximately 5000 pCi/kg			
D 233	Main creek bed, 200' upstream of COA	<30	48	4,200	400	400
D 234	Main creek bed, downstream of COA	160	31	3,600	700	400

-
- Notes: 1. Samples were collected on December 30, 1981.
 2. No other man-made photon-emitting radionuclides were detected (Nb-95: <50 pCi/kg).
 3. 1.1 E6 = 1.1×10^6 .

Table 8

Radioactivity Levels in Quarterly Composite Air Filters
from the Environment of the Farley Nuclear Plant

<u>Samples No.</u>	<u>Location</u>	<u>Dates, 1981</u>	<u>Volume, m³</u>	<u>Radionuclide concentration, fCi/m³</u>	
				<u>Cs-137</u>	<u>Be-7</u>
F 364, 394*	Blakely Water Tower	Oct., Dec.	2062	<1	100
F 366, 386*	Great South- ern Airport	Oct., Dec.	2107	<1	104

-
- Notes: 1. Two filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected. Decay was computed from midpoint of period.

Table 9

Radioactivity Levels in Soil Samples from the
Environment in Georgia of the Farley Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg			
		Cs-137	K-40	Ra-226	Ra-228
F 371	TLD #3	380	200	700	600
F 372	TLD #12	130	400	400	600
F 373	TLD #20	92	1,600	500	600
F 374	TLD #24	<20	600	400	300
F 375	TLD #1	<40	800	700	1,100
F 376	TLD #8	99	1,100	600	400
F 377	TLD #16	<40	1,000	900	800

- Notes: 1. Samples were collected on December 28-29, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 10

Radioactivity Levels in Grass Samples
from the Environment in Georgia of the Farley Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg				
		Zr-95	Nb-95	Cs-137	Ce-144	Be-7
F 378	TLD #20	46	108	48	500	4,200
F 379	TLD #16	<50	87	66	550	5,500
F 380	TLD #8	<50	60	48	190	6,900
F 381	TLD #3	<100	<60	510	<300	10,800
F 382	TLD #24	<100	<60	72	630	6,100
F 383	TLD #12	<100	<60	<60	<300	9,900
F 384	TLD #1	<50	<30	38	<100	5,100

Notes: 1. Samples were collected December 28-29, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 11

Radioactivity Levels in Water Samples from the
Environment in Georgia of the Farley Nuclear Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l
F 385	TLD #24, surface	<2	<2	<200
F 386	TLD #11, ground	3 \pm 2	<2	<200
F 387	TLD #20, surface	<2	<2	<200
F 388	TLD #20, ground	<2	2 \pm 2	<200
F 389	TLD #1, ground	<3	<3	<200
F 390	Chattahoochee R. upstream from Great Southern discharge	<2	2 \pm 2	<200
F 391	TLD #21, ground	<2	<3	<200
F 392	Chattahoochee R. at Great Southern discharge	2 \pm 2	<2	<200

-
- Notes: 1. Samples were collected on December 28, 1981.
2. Samples F 385 and F 387 were filtered before analysis.

Table 12

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Farley Nuclear Plant

Sample No.	Sample type	Location	Volume, m ³	Radionuclide concentration, pCi/m ³	
				I-131	Gross beta
F 393*	Cartridge	Blakely Water Tower	1017	<0.02	---
F 384*	Paper filter	Blakely Water Tower	1017	---	0.019
F 395*	Cartridge	Great Southern Airport	1048	<0.01	---
F 396*	Paper filter	Great Southern Airport	1048		0.019

- Notes: 1. Samples were collected on December 10, 1981, after 7-day sampling period.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 13

Radioactivity Levels in Fish Samples from the
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>Cs-137 concentration, pCi/kg</u>
F 397*	Common carp	Downstream CRM 41.4	23
F 398*	Largemouth bass	Upstream CRM 47.2- 47.8	72
F 399*	Common carp	Upstream CRM 47.2	29
F 400*	Largemouth bass	Downstream CRM 41.4	80

- Notes: 1. Samples were collected in the Chattahoochee River on September 21-22, 1981. (Samples were submitted on January 4, 1982.)
2. No other man-made photon-emitting radionuclides were detected (Co-60: <20 pCi/kg).

Table 14

Background Radioactivity Levels in Sediment Sample from the
Environment in Georgia

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>					
		<u>Zr-95</u>	<u>Nb-95</u>	<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
SB 7	TLD #10, Farley	<80	<50	<50	7,100	1,300	1,400

Notes: 1. Sample was collected on December 29, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 15

Background Radioactivity Levels in Grass Sample from the
Environment in Georgia

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>			
		<u>Zr-95</u>	<u>Nb-95</u>	<u>Cs-137</u>	<u>Be-7</u>
SB 8	TLD #10, Farley	<120	<60	<60	10,700

-
- Notes: 1. Sample was collected on December 29, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 16

Radioactivity Levels in Soil Samples from the
Environment in Georgia of the Oconee Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>			
		<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
LH 103	TLD #1	200	5,900	1,000	1,400
LH 104	TLD #3	350	7,300	1,500	800
LH 105	TLD #9	1,120	14,600	1,400	1,000

Notes: 1. Samples were collected on December 29, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 17

Radioactivity Levels in Grass Samples from the
Environment in Georgia of the Oconee Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>				
		<u>Zr-95</u>	<u>Nb-95</u>	<u>Cs-137</u>	<u>Ce-144</u>	<u>Be-7</u>
LH 106	TLD #1	23	62	16	350	3,400
LH 107	TLD #3	<60	<30	<30	<200	2,900
LH 108	TLD #9	<60	<30	<30	<200	4,600

-
- Notes: 1. Samples were collected on December 29, 1981.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 18

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Oconee Nuclear Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l
LH 109	TLD #1, surface	<2	2 \pm 2	<200
LH 110	TLD #1, ground	<3	3 \pm 2	<200
LH 111	Hartwell Marina	<3	<2	<200
LH 112	GA Welcome Center	18 \pm 4	4 \pm 2	<200
LH 113	TLD #9	<2	<2	<200

Notes: 1. Samples were collected on December 29, 1981.
2. Radium analysis is in process for LH 112.

Table 19

Radioactivity Levels in Soil Samples
from the Environment in Georgia of the Sequoyah Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>			
		<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
SQ 64	TLD #3	<30	5,800	1,100	1,100
SQ 65	TLD #11	<30	4,700	500	400
SQ 66	TLD #9	310	5,300	1,000	1,200
SQ 67	TLD #5	78	2,600	600	200

Notes: 1. Samples were collected on December 21, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 20

Radioactivity Levels in Grass Samples from the
Environment in Georgia of the Sequoyah Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>	
		<u>Cs-137</u>	<u>Be-7</u>
SQ 68	TLD #9	<30	2,400
SQ 69	TLD #11	<30	6,900
SQ 70	TLD #3	<30	4,000
SQ 71	TLD #5	<30	2,200

-
- Notes: 1. Samples were collected on December 21, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 21

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Sequoyah Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
SQ 72	Anggie's Grocery	<2	3 ± 2	<200
SQ 73	GA Welcome Center at I-75	2 ± 2	<3	<200
SQ 74	TLD #9; across from Keith's Game Room	<4	<3	<200

Notes: 1. Samples were collected on December 21, 1981. All samples are groundwater samples.

Table 22

Radioactivity Levels in Sand and Soil Samples from the
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
SR 392	Sandy soil	Stoney Bluff Park	<40	5,900	1,000	1,000
SR 393	Sand	TLD #1	<40	600	400	500
SR 394	Sand	TLD #6	220	12,100	1,900	2,000
SR 395	Sand	TLD #8	<40	200	800	500
SR 396	Sandy soil	TLD #10	<40	3,300	800	600
SR 397	Sand	TLD #11	<40	300	500	400
SR 398	Soil	TLD #15	87	9,500	900	900
SR 399	Sandy soil	TLD #16	<40	500	800	600
SR 400	Sandy soil	TLD #20	<40	1,900	600	400
SR 401	Sandy soil	TLD #22	190	600	700	700
SR 402	Sand	TLD #25	<40	1,000	1,000	1,000

- Notes: 1. Samples were collected on December 4, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 23

Radioactivity Levels in Grass and Vegetation Samples
from the Environment in Georgia of the Savannah River Plant

Sample No.	Type	Location	Radionuclide concentration, pCi/kg			
			Nb-95	Cs-137	Ce-144	Be-7
SR 403	River vegetation	TLD #10	<50	<30	<200	410
SR 404	River vegetation	TLD #15	<50	<30	<200	<400
SR 405	River vegetation	TLD #17	<100	<50	<400	430
SR 406	River vegetation	TLD #20	<50	<50	<200	790
SR 407	Vegetation	Stoney Bluff Park	<50	100	<200	2,700
SR 408	Vegetation	TLD #1	<50	<30	210	5,400
SR 409	Vegetation	TLD #6	<50	<50	<200	3,900
SR 410	Grass	TLD #8	120	<50	440	4,800
SR 411	Grass	TLD #10	<50	<30	<200	3,400
SR 412	Grass	TLD #11	<50	<30	<200	940
SR 413	Grass	TLD #15	37	32	<200	4,000
SR 414	Grass	TLD #16	91	107	<200	3,700
SR 415	Grass	TLD #20	<50	120	<200	2,400
SR 416	Grass	TLD #22	53	28	160	3,700
SR 417	Grass	TLD #25	50	71	<200	4,500

- Notes: 1. Samples were collected December 4, 1981.
2. No other man-made photon-emitting radionuclides were detected.

Table 24

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l
SR 418	South Augusta	---	---	500 \pm 200
SR 419	TLD #8	---	---	1100 \pm 200
SR 420	TLD #10	---	---	3100 \pm 300
SR 421	TLD #15	---	---	200 \pm 200
SR 422	TLD #16	---	---	<200
SR 423	TLD #20	---	---	<200
SR 424	TLD #22	---	---	<200
SR 425	TLD #24	---	---	500 \pm 200
SR 426	Stoney Bluff Park	2 \pm 2	4 \pm 2	6000 \pm 300
SR 427	Corps of Eng. Dam	<2	2 \pm 2	<200
SR 428	TLD #10	<2	2 \pm 2	<200
SR 429	TLD #11	<2	3 \pm 2	300 \pm 200
SR 430	TLD #15	<3	<3	3500 \pm 200
SR 431	TLD #16	<2	2 \pm 2	4200 \pm 200
SR 432	TLD #20	<2	2 \pm 2	7100 \pm 300
SR 433	TLD #20 downstream	<2	2 \pm 2	6900 \pm 300
SR 434	Lakeview Restaurant	<2	<3	700 200
SR 435	TLD #1	<2	<2	<200
SR 436	TLD #6	<2	2 \pm 2	600 \pm 200
SR 437	Plant Vogtle Security Office	<3	<3	<200
SR 438	Girard Mall Grocery	<3	<3	<200
SR 439	TLD #16	<3	<3	<200
SR 440	Stoney Bluff Park	<3	4 \pm 2	<200
SR 441	GA Welcome Ctr. TLD #20	<3	3 \pm 2	<200
SR 442	Kwik Stop, Waynesboro	<2	<3	<200

Note: 1. Samples were collected on December 4, 1981.
 2. Samples SR 418 - 425 are standing water; samples SR 426 - 434 are surface water, samples SR 434 - 442 are groundwater.

Table 25

Radioactivity Levels in Water Sample from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 443	I&D Water Supply Port Wentworth	<2	2 \pm 2	5,000 \pm 200	<0.3

Note: Sample was collected December 1-8, 1981

Table 26

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 444	River #2, 12-1	3 ± 2	5 ± 2	300 ± 200	<0.3
SR 445	River #10, 12-1	<3	3 ± 2	5300 ± 400	<0.1
SR 449	S Richmond rainwater 11/5-12/3	---	---	1300 ± 300	---
SR 450	Augusta rainwater 11/5-12/3	---	---	600 ± 200	---
SR 451	Waynesboro rainwater 11/5-12/3	---	---	300 ± 200	---
SR 452	Hwy 301 rainwater 11/5-12/3	---	---	<200	---
SR 453	Perkins rainwater 11/5-12/3	---	---	<200	---

Note: Samples SR 444 and 445 contained no man-made photon-emitting radionuclides (Cs-137 <10 pCi/l).

Table 27

Radioactivity Levels in Milk Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>
SR 446	Dixon	<5	3	<12	1.8	<200
SR 447	Boyce	<5	<2	<6	1.5	1,600 \pm 200
SR 448	McMurray	<5	2	7	1.6	200 \pm 200

Notes: 1. Samples were collected on December 3, 1981.
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 28

Radioactivity Levels on Smear of
Sandblasting Equipment, Smyrna

<u>Sample No.</u>	<u>Area, cm²</u>	<u>Location</u>	<u>Co-60, pCi/cm²</u>
S 1736	200	Equipment surface	<0.01
S 1737	30	Control surface	<0.2

Notes: 1. Samples were collected on December 28, 1981 by DHR staff.
2. No photon-emitting radionuclides were detected.

Table 29

Radioactivity Levels in New Community Water Systems
which are above the MCL

<u>Sample No.</u>	<u>Location</u>	<u>Date Collected</u>	<u>Date Received</u>	<u>Gross alpha, pCi/l</u>	<u>Ra-226, pCi/l</u>	<u>Ra-228, pCi/l</u>
WS 1670	Island Creek S/D #3070244437, Hancock Co.; Well #5	9/8/81	9/21/81	16 \pm 4	5.9	1.3
WS 1883	Town of Tarreytown #310309859 Montgomery Co.	11/24/81	11/30/81	31 \pm 6(u) 21 \pm 6(f)	23.8(f)	<1(f)

(u) - unfiltered
(f) - filtered

Table 30

Fallout from Chinese Atmospheric Nuclear Test of
October 16, 1980, Airborne Particles - State Building Samples

Sample No.	Sample date, 1981	Volume, m ³	Gross beta, pCi/m ³	Radionuclide concentration, fCi/m ³						
				Be-7	Zr-95	Nb-95	Ru-103	Cs-137	Ce-141	Ce-144
S 1729	12/2-16	3,011	<0.01	26	<2	<1	<1	<1	<1	<4

- Notes: 1. Gross beta activity was measured 6 hours after collection and includes Rn-220 daughters. Be-7 is also of natural origin. Among the shorter-lived fission products that were searched for are I-131 and Ba-140.
2. The filters are 12.5-cm-dia. charcoal-impregnated pads.

Table 31

Fallout from Chinese Atmospheric Nuclear Test
in Rainwater

<u>Sample No.</u>	<u>Sampling date, 1981</u>	<u>Location</u>	<u>Gross beta, pCi/l</u>	<u>Cs-137 concentration, pCi/l</u>
S 1719	10/29	Health Building	10 ± 2	<20

Note: A 500-ml sample was analyzed for man-made photon-emitting radio-nuclides. None were found.

Table 32

Exposure Rates at Nuclear Facilities
Measured with TLDs

ALABAMA POWER NUCLEAR PLANT FARLEY ... 810722-811229: 160 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0 (+)	22.2 2.0	5.8 0.5	50.6 4.5
2.0 (+-)	15.4 2.0	4.0 0.5	35.2 4.5
3.0 (+-)	13.9 1.5	3.6 0.4	31.8 3.5
4.0 (+-)	15.3 1.8	4.0 0.5	34.9 4.2
5.0 (+-)	14.5 1.5	3.8 0.4	33.0 3.4
6.0 (+-)	17.0 2.0	4.4 0.5	38.9 4.6
7.0 (+-)	20.7 2.5	5.4 0.7	47.2 5.8
8.0 (+-)	20.3 2.1	5.3 0.5	46.3 4.7
9.0 (+-)	15.4 1.7	4.0 0.5	35.2 4.0
10.0 (+-)	12.2 1.7	3.2 0.4	27.9 3.9
11.0 (+-)	15.5 1.8	4.0 0.5	35.4 4.1
12.0 (+-)	16.9 1.7	4.4 0.4	38.6 3.8
13.0 (+-)	14.0 2.9	3.7 0.8	32.0 6.7
14.0 (+-)	12.1 1.9	3.2 0.5	27.6 4.3
15.0 (+-)	15.2 1.8	3.9 0.5	34.6 4.0
16.0 (+-)	14.6 2.2	3.8 0.6	33.3 5.0
17.0 (+-)	17.4 1.9	4.5 0.5	39.6 4.4

Table 32 (cont'd)

18.0 (+-)	21.3 2.3	5.6 0.6	48.7 5.3	
19.0 (+-)	18.6 2.3	4.8 0.6	42.5 5.2	
20.0 (+-)	15.2 2.2	4.0 0.6	34.7 5.1	
21.0 (+-)	18.2 2.8	4.7 0.7	41.5 6.3	
22.0 (+-)	19.3 3.8	5.0 1.0	43.9 8.6	
23.0 (+-)	17.1 3.0	4.5 0.8	39.0 6.7	
24.0 (+-)	25.7 4.0	6.7 1.0	58.6 9.2	... <> 95% NORMAL DIST.
25.0 (+-)	16.6 1.6	4.3 0.4	37.9 3.7	
26.0 (+-)	14.3 1.8	3.7 0.5	32.7 4.1	
NET. AVG.: (+-)	16.9 6.4	4.4 1.7	38.5 14.6	

Table 32 (cont'd)

DUKE POWER NUCLEAR PLANT OCONEE ... 810918-811229: 102 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0	15.3	6.2	54.7
(+-)	5.1	2.1	18.4
2.0	20.2	8.3	72.3
(+-)	4.3	1.8	15.3
3.0	12.8	5.2	46.0
(+-)	1.6	0.7	5.8
4.0	10.5	4.3	37.7
(+-)	1.7	0.7	6.0
5.0	15.6	6.4	55.9
(+-)	1.7	0.7	5.9
6.0	13.3	5.4	47.7
(+-)	1.9	0.8	6.7
7.0	15.2	6.2	54.6
(+-)	1.4	0.6	4.9
8.0	16.7	6.8	59.8
(+-)	2.3	0.9	8.3
9.0	14.2	5.8	50.8
(+-)	4.6	1.9	16.5
NET. AVG.:	14.9	6.1	53.3
(+-)	5.4	2.2	19.3

Table 32 (cont'd)

TVA NUCLEAR PLANT SEQUOYAH ... 810819-811221: 124 DAYS

TLD#	MR	MICRR/HR	MR/YR
2.0 (+-)	12.1 1.3	4.1 0.5	35.7 4.0
3.0 2.0 (+-)	11.5 1.9	3.9 0.6	33.9 5.6
4.0 (+-)	15.1 1.7	5.1 0.6	44.6 5.0
5.0 (+-)	11.6 2.1	3.9 0.7	34.3 6.2
6.0 (+-)	10.4 2.1	3.5 0.7	30.6 6.1
7.0 (+-)	13.2 13.7	4.4 4.6	38.7 40.4
8.0 (+-)	15.3 3.0	5.2 1.0	45.1 8.9
9.0 (+-)	14.3 2.4	4.8 0.8	42.2 7.0
10.0 (+-)	13.9 1.3	4.7 0.4	41.0 3.8
11.0 (+-)	13.2 1.3	4.4 0.4	38.8 3.7
NET. AVG.: (+)	13.1 3.3	4.4 1.1	38.5 9.7

Table 32 (cont'd)

STATE BKG ... 810722-811229: 160 DAYS

TLD#	MR	MICRR/HR	MR/YR
9.0 (+-)	18.1 2.9	4.7 0.7	41.4 6.6
10.0 (+-)	24.2 2.8	6.3 0.7	55.1 6.4
11.0 (+-)	16.4 2.2	4.3 0.6	37.4 5.1
12.0 (+-)	13.3 4.5	3.5 1.2	30.3 10.2
NET. AVG.: (+-)	18.0 9.1	4.7 2.4	41.1 20.9

Table 32 (cont'd)

STATE BKG ... 810819-811221: 124 DAYS

TLD#	MR	MICRR/HR	MR/YR
14.0	21.1	7.1	62.1
(+-)	4.8	1.6	14.2
15.0	20.4	6.9	60.1
(+-)	1.8	0.6	5.3
16.0	10.3	3.5	30.4
(+-)	1.7	0.6	5.1
NET. AVG.:	17.3	5.8	50.9
(+-)	12.1	4.1	35.5

Georgia Institute of Technology
A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA
SCHOOL OF NUCLEAR ENGINEERING AND HEALTH PHYSICS
ATLANTA, GEORGIA 30332

ENVIRONMENTAL RADIATION LABORATORY
205 Old Civil Engineering Building

(404) 894-2375

M E M O R A N D U M

DATE: February 23, 1982

TO: Program Manager
Environmental Radiation Program
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director *Bernd Kahn*
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the Environmental
Radiation Laboratory, January 1982

The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental monitoring at nuclear facilities by DNR staff	Tables 1-16
Monitoring by DHR staff	Tables 17-18
TLD radiation monitoring at nuclear facilities by DNR staff	Table 19

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity attributed to the facility:

Table 10: H-3 in water intake downstream from Savannah River Plant
Table 13: H-3 in water downstream from SRP and in nearby rainwater
Table 14: H-3 in milk of cows near SRP

All other radionuclides in Tables 1-16 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

Soil samples collected near a nuclear materials laundry at Macon contained fission and activation products, as shown in Table 17. Samples collected from onsite and nearby locations at the University of Georgia radioactive waste processing location contained H-3, as shown in Table 18.

Table 19 summarizes exposure rates measured with TLDs during the preoperational period at Kings Bay naval base and at the Dawson Forest Wildlife Management Area, where a nuclear facility had operated. Annual exposures ranged from 24 to 44 mR at the former location and from 51 to 265 mR at the latter. The highest exposure rate obtained at Dawson Forest is undoubtedly due to radioactive contamination.

Table 1

Radioactivity Levels in Collard Sample from the
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, pCi/kg</u>
B 491*	10 mi SE of Plant, PR-82-541	<20

-
- Notes: 1. Sample was collected on January 20, 1982.
2. No other man-made photon-emitting radionuclides were detected.

Table 2

Radioactivity Levels in Air Samples from the
Environment of the Hatch Nuclear Plant

Sample No.	Sample type	Location	Volume, m ³	Radionuclide concentration, pCi/m ³	
				I-131	Gross beta
B 492*	Cartridge	Plant Hatch	311	<0.01	---
B 493*	Paper filter	Plant Hatch	311	---	0.009
B 494*	Cartridge	Substation	311	<0.01	---
B 495*	Paper filter	Substation	311	---	0.007
B 496*	Cartridge	Dead River Road	311	<0.01	---
B 497*	Paper filter	Dead River Road	311	---	0.019

-
- Notes: 1. Samples were collected on January 26, 1982, after 8-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 3

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m³</u>	<u>Radionuclide concentration, pCi/m³</u>	
				<u>I-131</u>	<u>Gross beta</u>
F 401*	Cartridge	Great Southern Airport	14	<0.1	---
F 402*	Paper filter	Great Southern Airport	14	---	<0.2
F 403*	Cartridge	Blakely Water Tower	1005	<0.004	---
F 404*	Paper filter	Blakely Water Tower	1005	---	0.021

- Notes: 1. Samples F 401-402 were collected on January 7, 1982, after only a 1.75 hour sampling period. Samples F 403-404 were collected on January 14, 1982, after 7-day sampling period.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 4

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Farley Nuclear Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l	I-131, pCi/l	Sr-89, pCi/l	Sr-90, pCi/l
F 405*	Chattahoochee R., downstream at Great Southern Paper Company	<2	2 ± 2	<200	<0.1	---	---
F 406* 4th qtr.	Chattahoochee R., downstream	<2	<3	400 ± 200	---	<5	<2
F 407* 4th qtr.	Chattahoochee R., upstream	<3	3 ± 2	<200	---	<5	<2

- Notes: 1. Samples were collected by Alabama Power Company staff; sample F 405 was collected on January 29, 1982.
2. No photon-emitting radionuclides were detected (Cs-137 <20 pCi/l).

Table 5

Radioactivity Levels in Soil and Sediment Samples from the
Environment of the King's Bay Submarine Base

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>			
		<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
KB 120	S-5 sediment	73	4,600	700	600
KB 121	S-7 sediment	<40	3,800	900	800
KB 122	S-4 sediment	92	2,300	300	200
KB 123	S-8 sediment	<40	5,300	500	700
KB 124	S-6 sediment	59	3,200	300	400
KB 125	S-1 sediment	<40	1,300	300	200
KB 126	S-2 sediment	51	2,400	700	800
KB 127	S-3 sediment	91	2,500	400	300
KB 128	Soil #1	190	2,000	800	800
KB 129	Soil #2	140	1,200	<200	700

-
- Notes: 1. Samples were collected on January 5-6, 1982.
2. No other man-made photon-emitting radionuclides were detected.

Table 6

Radioactivity Levels in Grass Samples from the
Environment of the King's Bay Submarine Base

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>		
		<u>Nb-95</u>	<u>Cs-137</u>	<u>Be-7</u>
KB 130	Grass #1	54	160	6,800
KB 131	Grass #2	<50	52	6,400

-
- Notes: 1. Samples were collected on January 6, 1982.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 7

Radioactivity Levels in Water Samples from
the Environment of the King's Bay Submarine Base

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l
KB 132	Surface water #5 3.0 mi SSE of Base	61 ± 43	360 ± 40	<300
KB 133	Surface water #1 N River 3.1 mi SSE of Bay	<50	170 ± 40	<300
KB 134	Surface water #2, 3.0 mi NNW at Crooked R. ramp	<50	320 ± 40	<300
KB 135	Surface water #6, 0.5 mi NNW opera- tions	<50	320 ± 40	<300
KB 136	Ground water #2 3.0 mi. NNW at ramp faucet	<5	<5	<200
KB 137	Ground water #3 10.5 mi WNW on Hwy 12	<5	<5	<200

- Notes: 1. Samples were collected on January 6, 1982.
 2. The gross beta activity in sample KB 132 is elevated because of K-40 in sea water; "less than" gross alpha and beta activity values in these samples are high because only small volumes (10 ml) could be used due to salt content.

Table 8

Radioactivity Levels in Waste Water at the
Georgia Tech Research Reactor Center

<u>Sample No.</u>	<u>Radioactivity concentration, pCi/l</u>	
	<u>Sr-89</u>	<u>Sr-90</u>
GT 113	<5	<2

-
- Notes: 1. Sample was collected on November 24, 1981.
2. Other results are given in Table 12 of the Monthly Report for November 1981.

Table 9

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
SR 357, 383 and 443	I&D Water Supply Port Wentworth	<5	<2
SR 352 and 444	River #2	<5	<2
SR 353 and 445	River #10	<5	<2

-
- Notes: 1. A composite was prepared using equal amounts of each sample.
2. The samples for Port Wentworth were collected in October, November and December 1981. The composites for locations River #2 and River #10 were prepared from samples collected in October and December 1981; the November samples were accidentally discarded. Other results for these samples are given in the Monthly Reports for October, November and December 1981.

Table 10

Radioactivity Levels in Water Sample from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 454	I&D Water Supply Port Wentworth	<3	3 ± 2	1700 ± 300	<0.1

-
- Notes: 1. Sample was collected January 6-12, 1982.
2. No man-made photon-emitting radionuclides were detected (Cs-137 <10 pCi/l).

Table 11

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Savannah River Plant

Sample No.	Sample type	Location	Volume, m ³	Radionuclide concentration, pCi/m ³	
				I-131	Gross beta
SR 455*	Cartridge	Plant Vogtle	730	<0.01	---
SR 456*	Paper filter	Plant Vogtle	730	---	0.026
SR 457*	Cartridge	Youth Development Ctr., Augusta	729	<0.01	---
SR 458*	Paper filter	Youth Development Ctr., Augusta	729	---	0.023
SR 459*	Cartridge	Girard	969	<0.01	---
SR 460	Paper filter	Girard	969	---	0.019

-
- Notes: 1. Samples were collected on January 7, 1982, after 44-day sampling period.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 12

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>H-3, pCi/Q-tip</u>
SR 461	TLD #11	<4
SR 462	TLD #15	4 \pm 2
SR 463	TLD #17	3 \pm 2
SR 464	TLD #20	19 \pm 3
SR 465	TLD #25	9 \pm 2

Notes: 1. Samples were collected on December 4, 1981.
2. Samples were collected by condensing moisture.

Table 13

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

Sample No.	Location and Date	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l	I-131, pCi/l
SR 466	River #2; 12/29	<2	4 ± 2	300 ± 200	---
SR 467	River #10; 12/29	<2	<2	3,400 ± 300	---
SR 468	River #2; 1/26	<2	<2	600 ± 200	<0.2
SR 469	River #10; 1/26	<2	2 ± 2	8,800 ± 400	<0.2
SR 470	Augusta rainwater; 12/3-17	---	---	<300	---
SR 471	So Richmond rain- water; 12/3-17	---	---	<300	---
SR 472	Perkins rainwater; 12/3-17	---	---	<300	---
SR 473	Waynesboro rainwater; 12/3-17	---	---	<300	---
SR 474	Hwy 301 rainwater; 12/3-17	---	---	300 ± 300	---
SR 475	Augusta rainwater; 12/17-31	---	---	<300	---
SR 476	So Richmond rain- water; 12/17-31	---	---	<300	---
SR 477	Perkins rainwater; 12/17-31	---	---	800 ± 200	---
SR 478	Waynesboro rainwater; 12/17-31	---	---	1,700 ± 200	---
SR 479	Hwy 301 rainwater; 12/17-31	---	---	1,000 ± 200	---
SR 480	Augusta rainwater; 1/21-28	---	---	1,800 ± 200	---

Table 13 (cont'd)

<u>Sample No.</u>	<u>Location and Date</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 481	So Richmond rain- water; 1/21-28	---	---	800 \pm 200	---
SR 482	Perkins rainwater; 1/21-28	---	---	1,100 \pm 200	---
SR 483	Waynesboro rainwater; 1/21-28	---	---	1,800 \pm 200	---
SR 484	Hwy 301 rainwater; 1/21-28	---	---	1,700 \pm 200	---

Note: No man-made photon-emitting radionuclides were detected in samples SR 466-469 (Cs-137 <10 pCi/l).

Table 14

Radioactivity Levels in Milk Samples from
the Environment of the Savannah River Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 485	Dixon	<5	4	<10	1.6	1,200 ± 300	<0.3
SR 486	Boyce	<5	2	6	1.4	500 ± 300	<0.3
SR 487	McElmurry	<5	2	<10	1.5	600 ± 300	<0.3

Notes: 1. Samples were collected on January 28, 1982.
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 15

Radioactivity Levels in Collard Sample from the
Environment of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, pCi/kg</u>
SR 489	PR-82-581, Screven Co.	<20

-
- Notes: 1. Sample was collected on February 2, 1982.
2. No other man-made photon-emitting radio-
nuclides were detected.

Table 16

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Savannah River Plant

Sample No.	Sample type	Location	Volume, m ³	Radionuclide concentration, pCi/m ³	
				I-131	Gross beta
SR 490*	Cartridge	Youth Development Ctr, Augusta	721	<0.01	---
SR 491*	Paper filter	Youth Development Ctr, Augusta	721	---	0.018
SR 492*	Cartridge	Girard	871	<0.01	---
SR 493*	Paper filter	Girard	871	---	0.013
SR 494*	Cartridge	Plant Vogtle	873 ³	<0.01	---
SR 495*	Paper filter	Plant Vogtle	873 ³	---	0.016

- Notes:
1. Samples were collected on February 2, 1982 after a 26-day sampling period.
 2. No other man-made photon-emitting radionuclides were detected in the cartridges.
 3. Volume for samples SR 494-495 was determined from elapsed time rather than from sampler readings.

Table 17

Background Radioactivity Levels in Soil Samples from the
Environment of Southern Space, Inc., Macon

Sample No.	Location	Radionuclide concentration, pCi/kg									
		Mn-54	Co-58	Co-60	Zn-65	Sb-125	Cs-134	Cs-137	K-40	Ra-226	Ra-228
S 1752	Lint filter house 2.5' from door	180	360	2,200	610	<90	630	1,300	1,100	500	900
S 1753	Lint filter house 2' from door	940	2,100	30,000	21,000	180	4,300	9,600	1,600	<200	<200
S 1754	Middle of first section of fence from building	310	2,400	4,500	2,400	<90	1,400	7,100	1,700	1,200	1,000
S 1755	Control - Cliff- view Drive	<40	<40	<40	<80	<40	<40	<40	800	700	1,400

Notes: 1. Samples were collected on January 28, 1982 by DHR personnel.
2. No other man-made photon-emitting radionuclides were detected.

Table 18

Radioactivity Levels in Samples Taken at
the University of Georgia

<u>Sample No.</u>	<u>Identification</u>	<u>H-3, pCi/l</u>	<u>C-14, pCi/l</u>
S 1756	Vegetation	2,800 \pm 300	---
S 1757	Toluene from tank 1st burn	26,000 \pm 15,000	<700
S 1758	Toluene from tank 2nd burn	296,000 \pm 18,000	242,000 \pm 11,000
S 1759	Water; #3; Oconee College Station Rd	<200	(2)
S 1760	Water; #4; Oconee College Station Rd	400 \pm 200	(2)
S 1761	Water; #5	168,000 \pm 1,000	(2)
S 1762	Water; #6	165,000 \pm 1,000	(2)
S 1763	Water; Bkg. from Sapelo Island	<200	(2)

- Notes:
1. Samples were collected on December 10, 1981 by DHR staff.
 2. Sufficient sample was not available for both H-3 and C-14 analyses.
 3. Samples S 1757 and S 1758 were 0.1 ml volumes.

Table 19

Exposure Rates at Nuclear Facilities
Measured with TLDs

KINGS BAY SUBMARINE BASE ... 810819-820106: 140 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0	17.2	5.1	44.8
(+-)	2.2	0.7	5.8
2.0	9.3	2.8	24.1
(+-)	2.0	0.6	5.2
3.0	14.8	4.4	38.6
(+-)	2.0	0.6	5.1
4.0	14.2	4.2	36.9
(+-)	2.8	0.8	7.4
5.0	10.6	3.1	27.5
(+-)	2.4	0.7	6.3
6.0	11.1	3.3	28.8
(+-)	2.6	0.8	6.9
7.0	13.1	3.9	34.1
(+-)	2.0	0.6	5.3
9.0	13.3	4.0	34.8
(+-)	2.8	0.8	7.4
10.0	14.3	4.3	37.4
(+-)	2.4	0.7	6.3
11.0	15.5	4.6	40.4
(+-)	1.8	0.5	4.7
NET. AVG.:	13.3	4.0	34.7
(+-)	4.9	1.4	12.7

Table 19 (cont'd)

DAWSON FOREST WILDLIFE MANAGEMENT AREA ... 810914-811230: 107 DAYS

TLD#	MR	MICRR/HR	MR/YR	
1.0	23.9	9.3	81.5	
(+-)	2.3	0.9	7.8	
2.0	31.5	12.3	107.6	
(+-)	5.1	2.0	17.5	
3.0	19.8	7.7	67.4	
(+-)	5.8	2.2	19.6	
4.0	16.5	6.4	56.2	
(+-)	4.5	1.7	15.2	
5.0	19.0	7.4	64.7	
(+-)	2.9	1.1	9.7	
6.0	21.2	8.3	72.4	
(+-)	3.6	1.4	12.2	
7.0	25.0	9.7	85.3	
(+-)	3.6	1.4	12.4	
8.0	77.7	30.3	265.2	
(+-)	15.4	6.0	52.6	... <> 95% NORMAL DIST.
9.0	14.8	5.8	50.6	
(+-)	2.0	0.8	6.8	
10.0	15.0	5.8	51.0	
(+-)	1.9	0.7	6.4	
NET. AVG.:	26.4	10.3	90.2	
(+-)	37.5	14.6	127.8	

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E-26-677

Georgia Institute of Technology

A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA
SCHOOL OF NUCLEAR ENGINEERING AND HEALTH PHYSICS
ATLANTA, GEORGIA 30332

ENVIRONMENTAL RADIATION LABORATORY
205 Old Civil Engineering Building

MEMORANDUM

(404) 894-2375

DATE: April 13, 1982

E-26-677

TO: Program Manager
Environmental Radiation Program
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director *Bernd Kahn*
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the Environmental
Radiation Laboratory, March 1982

The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental monitoring at nuclear facilities by DNR staff	Tables 1-20
Monitoring by DHR staff	Tables 21-23
Monitoring by DNR staff of Community Water Systems	Table 24
Monitoring fallout	Tables 25-26
TLD radiation monitoring at nuclear facilities by DNR staff	Table 27

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity attributed to the facility:

Tables 17, 18 and 20: H-3 in river and rain water samples and in milk samples collected near the Savannah River Plant

All other radionuclides in Tables 1-27 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

Many of the soil and grass samples collected near the Southern Space Laundry by DHR staff contained fission and activation products attributed to contamination from the laundry. As shown in Tables 21-23, Co-60, Zn-65, Cs-134 and Cs-137 in many of the samples, and additional Cr-51, Mn-54, Co-58, Zr-95, Nb-95 and Sb-125 in a few samples. Some of the Zr-95, Nb-95 and Cs-137 may have been from fallout.

The program for entering community water supply radioactivity data into the computer has finally been completed, and a summary of results is given in Table 24. The following supplies exceeded radium levels of 5 pCi/L:

WS 1670 Island Creek

WS 1676 Enigma

WS 1674 Attapulugus

WS 1677 Pine Hill

WS 1675 Country Haven MHP;
also WS 1874, 2125

WS 1678 Marshallville; also
WS 1843, 1926

WS 1680	Alapoha	WS 1899	Meadow Haven TP; also WS 2002
WS 1840	Petross	WS 1902	Brittany Harbor #2
WS 1883	Tarrytown; also WS 1988	WS 1906	Seminole MHP
WS 1885	Tugaloo Bay Estates	WS 1967	Wildwood MHP
WS 1887	Hillside TP	WS 2079	Suburban MHP
WS 1896	Gordon	WS 2082	Hartfield
		WS 2128	M&T Waterworks

Samples WS 1964, 1966, 2008, 2083, 2098, 2127 and 2150 are still being analyzed among samples WS 1600 - 2163.

No radioactivity attributable to recent fallout was detected in airborne particles and rainwater collected in Atlanta, as shown in Tables 25 and 26.

TLD measurements obtained in the Georgia environment of the Sequoyah Nuclear Plant ranged from 33 to 56 mR/yr, and those near the Oconee Nuclear Plant ranged from 40 to 88 mR/yr, as shown in Table 27. Background values near these plants were in the same range. All are attributed to natural radiation.

Table 1

Radioactivity Levels in Quarterly Composite Air Filters
from the Environment of the Hatch Nuclear Plant

<u>Samples No.</u>	<u>Location</u>	<u>Dates, 1982</u>	<u>Volume, m³</u>	<u>Cs-137 concentration, pCi/m³</u>
B 493, 527, 535	Plant Hatch	Jan - Mar	855	<0.002
B 495, 525, 537	Substation	Jan - Mar	854	<0.002
B 497, 523, 539	Dead River Rd	Jan - Mar	855	<0.002

-
- Notes: 1. Three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports and Table 5 for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 2

Radioactivity Levels in Water Samples from
the Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B 520*	Altamaha River, #170, 1/27 - 2/23/82	2 ± 2	<2	<200	<2
B 521*	Altamaha River, #172, 1/27 - 2/23/82	<2	3 ± 1	<200	<2
B 540*	Altamaha River, #170, 2/23 - 3/24/82	<3	2 ± 2	<200	<3
B 541*	Altamaha River, #172, 2/23 - 3/24/82	<4	4 ± 2	<200	<10

-
- Notes: 1. Samples were collected by Georgia Power Company staff.
2. No man-made photon-emitting radionuclides were detected (Cs-137 <20 pCi/l).

Table 3

Radioactivity Levels in Grass Samples from the
Environment in Georgia of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>	
		<u>Cs-137</u>	<u>Be-7</u>
B 528*	#5	56	710
B 529*	#17	<20	530
B 530*	#21	<20	950

-
- Notes: 1. Samples were collected on March 11, 1982, by Georgia Power Company staff.
2. No other man-made photon-emitting radionuclides were detected.

Table 4

Radioactivity Levels in Milk Samples from
the Environment of the Hatch Nuclear Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B 531	GSP	<5	3	<10	1.5	<200	<2
B 532	Williamson	<5	6	<6	1.8	<200	<2
B 533	Johnson Bros.	<5	4	16	1.6	200 \pm 200	<2

Notes: 1. Samples were collected on March 16, 1982 by Georgia Power Company staff.
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 5

Radioactivity Levels in Air Samples from the
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m³</u>	<u>Radionuclide concentration, pCi/m³</u>	
				<u>I-131</u>	<u>Gross beta</u>
B 534*	Cartridge	Plant Hatch	271	<0.02	---
B 535*	Paper filter	Plant Hatch	271	---	0.008
B 536*	Cartridge	Substation	271	<0.02	---
B 537*	Paper filter	Substation	271	---	0.009
B 538*	Cartridge	Dead River Road	271	<0.02	---
B 539*	Paper filter	Dead River Road	271	---	0.012

- Notes: 1. Samples were collected on March 22, 1982, after 7-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 6

Radioactivity Levels in Quarterly Composite Air Filters
from the Environment of the Farley Nuclear Plant

<u>Samples No.</u>	<u>Location</u>	<u>Dates, 1982</u>	<u>Volume, m³</u>	<u>Cs-137 concentration, pCi/m³</u>
F 402, 409, 416	Great Southern Airport	Jan - Mar	2094	<0.001
F 404, 411, 414	Blakely Water Tower	Jan - Mar	3068	<0.001

-
- Notes: 1. Three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports and Table 8 for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 7

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F 412	Chattahoochee R., downstream at Great Southern Paper Co.	<3	4 \pm 2	300 \pm 200	<1

Notes: 1. Sample was collected January 29, 1982 - March 4, 1982.
2. No other photon-emitting radionuclides were detected (Cs-137 <20 pCi/l).

Table 8

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m³</u>	<u>Radionuclide concentration, pCi/m³</u>	
				<u>I-131</u>	<u>Gross beta</u>
F 413*	Cartridge	Blakely Water Tower	1039	<0.04	---
F 414*	Paper filter	Blakely Water Tower	1039	---	0.016
F 415*	Cartridge	Great Southern Airport	1044	<0.04	---
F 416*	Paper filter	Great Southern Airport	1044	---	0.015

-
- Notes: 1. Samples were collected on March 11, 1982, after 7-day sampling period.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 9

Radioactivity Levels in Waste Water at the
Georgia Tech Research Reactor Center

<u>Sample No.</u>	<u>Radionuclide concentration, pCi/l</u>	
	<u>Sr-89</u>	<u>Sr-90</u>
GT 123	<5	4

- Notes:
1. Sample was collected on February 19, 1982.
 2. Other results are given in Table 9 of the Monthly report for February, 1982.

Table 10

Radioactivity Levels in Water Sample from the
Environment in Georgia of the
Oconee Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Ra-226, pCi/l</u>	<u>Ra-228, pCi/l</u>
LH 112	GA Welcome Center	2.1	<1

Note: Results of other analyses were reported
in Table 18 of the December 1981 Monthly
Report.

Table 11

Radioactivity Levels in Soil Samples from the
Environment in Georgia of the Oconee Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>			
		<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
LH 114	TLD #1	1,100	9,000	1,600	1,800
LH 115	TLD #3	82	5,400	700	700
LH 116	TLD #6	430	3,800	1,400	1,000
LH 117	TLD #9	350	12,400	1,400	800

Notes: 1. Samples were collected on March 17, 1982.
2. No other man-made photon-emitting radionuclides were detected.

Table 12

Radioactivity Levels in Grass Samples from the
Environment in Georgia of the Oconee Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>	
		<u>Cs-137</u>	<u>Be-7</u>
LH 118	TLD #1	<20	1,100
LH 119	TLD #3	<20	1,400
LH 120	TLD #6	26	2,200
LH 121	TLD #9	25	6,200

-
- Notes: 1. Samples were collected on March 17, 1982.
2. No other man-made photon-emitting radionuclides
were detected. Be-7 is formed in nature.

Table 13

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Oconee Nuclear Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l
LH 122	TLD #1, ground	3 ± 2	6 ± 2	<200
LH 123	GA Welcome Center	11 ± 2	7 ± 2	<200
LH 124	TLD #6, ground	2 ± 1	3 ± 1	<200
LH 125	TLD #1, surface	2 ± 1	2 ± 1	200 ± 200
LH 126	Hartwell Marina	<1	2 ± 1	200 ± 200
LH 127	TLD #9, surface	<1	<2	200 ± 200

Note: Samples were collected on March 17, 1982.

Table 14

Radioactivity Levels in Soil Samples from the
Environment in Georgia of the Sequoyah Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg			
		Cs-137	K-40	Ra-226	Ra-228
SQ 75	TLD #1	450	5,000	1,100	400
SQ 76	TLD #3	<50	3,900	1,300	1,000
SQ 77	TLD #5	870	5,400	900	400
SQ 78	TLD #9	270	4,900	1,400	1,300
SQ 79	TLD #10	<40	7,200	1,500	1,400
SQ 80	TLD #11	60	10,000	800	800

-
- Notes: 1. Samples were collected on March 25, 1982.
2. No other man-made photon-emitting radionuclides were detected except 84 pCi/Kg Nb-95 in sample SQ 77.

Table 15

Radioactivity Levels in Grass Samples from the
Environment in Georgia of the Sequoyah Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>	
		<u>Cs-137</u>	<u>Be-7</u>
SQ 81	TLD #1	<30	1,700
SQ 82	TLD #3	<30	2,000
SQ 83	TLD #9	<30	400
SQ 84	TLD #10	<30	940
SQ 85	TLD #5	<30	1,700
SQ 86	TLD #11	<30	3,500

- Notes:
1. Samples were collected on March 25, 1982.
 2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 16

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Sequoyah Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
SQ 87	GA Welcome Center at I-75	<3	4 ± 2	300 ± 200
SQ 88	TLD #9	<7	8 ± 3	<200

Note: Samples were collected on March 25, 1982. Both samples are groundwater.

Table 17

Radioactivity Levels in Milk Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 554	Boyce	<5	2	<10	1.5	1000 \pm 200	<1
SR 555	Dixon	<5	3	<10	1.6	1100 \pm 200	<1
SR 556	Gracewood	<5	3	<10	1.5	500 \pm 200	<1

Notes: 1. Samples were collected on February 25, 1982.
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 18

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 557	River #2	<3	4 ± 2	600 ± 200	<1
SR 558	River #10	<3	3 ± 2	2300 ± 200	<2
SR 559	Waynesboro rainwater	--	--	900 ± 200	--
SR 560	Hwy 301 rainwater	--	--	900 ± 200	--
SR 561	Perkins rainwater	--	--	1100 ± 200	--
SR 562	So. Richmond rainwater	--	--	800 ± 200	--

-
- Notes: 1. Samples SR 557-558 were collected on February 23, 1982.
 Samples SR 559-562 were collected February 11-25, 1982.
2. No man-made photon-emitting radionuclides were detected in samples SR 557-558 (Cs-137 <20 pCi/l).

Table 19

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m³</u>	<u>Radionuclide concentration, pCi/m³</u>	
				<u>I-131</u>	<u>Gross beta</u>
SR 563*	Cartridge	Youth Development Center, Augusta	316	<0.02	--
SR 564*	Paper filter	Youth Development Center, Augusta	316	--	0.011
SR 565*	Cartridge	Plant Vogtle	328	<0.02	--
SR 566*	Paper filter	Plant Vogtle	328	--	0.007
SR 567*	Cartridge	Girard	249	<0.02	--
SR 568*	Paper filter	Girard	249	--	0.010

- Notes: 1. Samples were collected on March 2, 1982, after 28-day sampling period.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 20

Radioactivity Levels in Water Samples from the
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 569	I&D Water Supply, Port Wentworth	<2	2 ± 1	2,300±200	<1

- Notes:
1. Sample was collected on March 3-9, 1982.
 2. No man-made photon-emitting radionuclides were detected (Cs-137<20pCi/l).

Table 21

Radioactivity Levels in Soil Samples from
the Southern Space Laundry, Macon

Sample No.	Location	Radionuclide concentration, pCi/kg			
		Co-60	Zn-65	Cs-134	Cs-137
S 1840	103	97	<80	40	530
S 1841	104	150	130	59	390
S 1842	108	47	<80	<40	102
S 1843	110	<40	<80	<40	130
S 1844	124	<40	<80	<40	370
S 1845	135	<40	<80	<40	210
S 1846	154	60	<80	<40	1,200
S 1847	167	52	<80	<40	170
S 1848	202	20,000	28,000	310	1,400
S 1849	203	9,800	4,600	1,420	8,200
S 1850	208	<40	<80	<40	790
S 1851	240	40	<80	<40	770
S 1852	242	130	<80	<40	780
S 1853	249	<40	<80	<40	550
S 1854	271	180	<80	<40	340
S 1855	273	<40	<80	<40	<40
S 1856	277	<40	<80	<40	<40
S 1857	302	1,000	630	120	1,300
S 1858	327	<40	<80	<40	<40
S 1859	331	<40	<80	<40	<40
S 1860	338	<40	<80	<40	<40
S 1861	361	6,800	1,700	1,160	8,900
S 1862	407	9,200	3,700	1,700	8,000
S 1863	409	6,400	1,900	710	4,700

Table 21 continued

Sample No.	Location	Radionuclide concentration, pCi/kg			
		Co-60	Zn-65	Cs-134	Cs-137
S 1864	415	2,200	330	240	1,300
S 1865	436	490	<80	63	870
S 1866	441	<40	<80	<40	<40
S 1867	444	170	<80	<40	1,200
S 1868	463	98	<80	<40	700
S 1869	464	<40	<80	<40	56
S 1870	471	150	<80	<40	420
S 1871	479	<40	<80	<40	600
S 1872	483	<40	<80	<40	260
S 1873	488	<40	<80	<40	<40
S 1874	489	<40	<80	<40	<40
S 1875	553	<40	<80	<40	<40
S 1876	566	110	<80	66	400
S 1877	581	170	<80	56	750

-
- Notes: 1. Samples were collected March 11, 1982 by DHR personnel.
2. Samples S 1848, 1849, 1850, 1857, 1861, 1862, 1863 and 1864 have the additional radionuclide shown in Table 22.

Table 22

Radioactivity Levels in Soil Samples from
the Southern Space Laundry, Macon

Sample No.	Location	Radionuclide concentration, pCi/kg					
		Cr-51	Mn-54	Co-58	Zr-95	Nb-95	Sb-125
S 1848	202	2,900	320	260	<200	200	220
S 1849	203	<1,000	570	680	440	990	260
S 1850	208	<500	<40	<40	<80	<40	<40
S 1857	302	--	76	180	--	--	--
S 1861	361	<1,000	320	360	<180	200	<90
S 1862	407	<1,000	480	630	<200	<100	160
S 1863	409	<700	520	970	<200	<100	<80
S 1864	415	<500	130	140	160	410	70

Note: Samples were collected March 11, 1982 by DHR personnel.

Table 23

Radioactivity Levels in Grass Samples from
the Southern Space Laundry, Macon

Sample No.	Location	Radionuclide concentration, pCi/kg						
		Co-58	Co-60	Zn-65	Nb-95	Cs-134	Cs-137	Be-7
S 1878	232	<30	<30	<60	<30	<30	<30	<200
S 1879	354	<30	96	91	<30	80	410	520
S 1880	404	35	160	72	<40	102	270	540
S 1881	555	<30	120	110	48	41	93	240

Note: Samples were collected March 11, 1982 by DHR personnel.

Table 24

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAP DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
300918441	1600	BOWEN MILL CRIST COM	FEEN HILL	3 -1-81	8103	0	< 1			
408914273	1601	STANFORD APTS.	LIBERTY	3 -1-81	8103	0	< 1			
408937207	1602	WATER MHP, LIBERTY CO	LIBERTY	3 -1-81	8103	0	< 1			
401803264	1603	SIX STAR MHP VILLAGE	BUTTS	3 -1-81	8103	0	3 + 1			
405308035	1604	S&S WATER, EMANUEL	EMANUEL	3 -1-81	8103	0	< 1			
301701273	1605	MIDVILLE, CITY OF	BURKE	3 -1-81	8103	0	< 1			
301000484	1606	WASHVILLE, CITY OF	FERRIEN	3 -1-81	8103	0	< 2			
305321682	1607	S&S WATER, DEALERS PK	EMANUEL	3 -1-81	8103	0	< 1			
308917336	1608	BILL STANFORD TP	LIBERTY	3 -1-81	8103	0	< 1			
308908659	1609	TIDE LAND COMM. SCHOOL	LIBERTY	3 -1-81	8103	0	< 1			
301113962	1610	EASY(?) MHP	ETEP	3 -1-81	8103	0	2 + 1			
409027785	1611	PLEASANT VIEW	LINCOLN	3 -1-81	8103	0	2 + 2			
302221969	1612	MEMORY SPRINGS MHP	CARROLL	6 -1-81	8106	0	2 + 1			
302223354	1613	HILL CREST ACRES S/D	CARROLL	6 -1-81	8106	0	2 + 1			
302223259	1614	RED BARN COURT	CHEROKEE	6 -1-81	8106	0	< 1			
405207938	1615	HEARDMONT HEALTH CTR	ELBERT	6 -1-81	8106	0	< 1			
402904753	1616	PINE CREST MHP	CLARKE	6 -1-81	8106	0	< 1			
306117307	1617	QUARELS MHP	GLIMMER	6 -1-81	8106	0	< 1			
310722003	1618	OAK FOREST MHP	NEWTON	6 -1-81	8106	0	< 1			
412721030	1619	EASTANOLLEE MHP	STEPHENS	6 -1-81	8106	0	2 + 1			
300522763	1620	THE COVE S/D	BALWIN	6 -1-81	8106	0	< 3			
303603737	1621	MARTINEZ WATER ASSO.	COLUMBIA	6 -1-81	8106	0	11 + 2	0.1	< 1.0	3 + 1
306921191	1622	TRAILWOOD ACRES MHP	HALL	6 -1-81	8106	0	< 1			
312110783	1623	AUGUSTA YOUTH CTR.	RICHMOND	6 -1-81	8106	0	< 2			
411018067	1624	WATERS MHP	PAULDING	6 -1-81	8106	0	8 + 1	2.0	< 1.0	< 2
312621726	1625	CAREYS MHP	SPALDING	6 -1-81	8106	0	2 + 2			
310822745	1626	BROOKWOOD ESTATES	OCONEE	6 -1-81	8106	0	< 2			
315813601	1627	ALLENTOWN, CITY OF	WILKINSON	6 -1-81	8106	0	10 + 2	0.9	2.0	< 2
312110808	1628	CASTLE PINES MHP	RICHMOND	6 -1-81	8106	0	< 2			
312110835	1629	GATE 5 MHP	RICHMOND	6 -1-81	8106	0	< 1			
312421537	1630	BUCK CREEK ACRES	SCREVEN	6 -1-81	8106	0	< 2			
311323065	1631	OAK VIEW	PIERCE	7 -1-81	8107	0	< 1			
301315294	1632	DURWOOD S/D	BRANTLEY	7 -1-81	8107	0	< 2			
301623401	1633	FOREST HILLS S/D	BULLOCH	7 -1-81	8107	0	< 1			
41512434	1634	EON AIR APTS.	WAYNE	7 -1-81	8107	0	< 1			
401602364	1635	LAKE SIDE ESTATES	BULLOCH	7 -1-81	8107	0	< 1			
303423263	1636	EVANS TP #1	COFFEE	7 -1-81	8107	0	< 2			
406327079	1637	BRUNSWICK/I-95 INTCG	GLYNN	7 -1-81	8107	0	< 1			
301619589	1638	BULLOCH CO. COR. INST	BULLOCH	7 -1-81	8107	0	< 1			
308823144	1639	HOG HAMMOCK	MCINTOSH	7 -1-81	8107	0	2 + 2			
115124452	1640	GARDENVIEW APTS.	WAYNE	7 -1-81	8107	0	< 1			
308922181	1641	FORT STEWART ARMY	LIBERTY	7 -1-81	8107	0	< 2			
025233337	1642	BELLAIRE VILLAGE S/D	CHATHAM	7 -1-81	8107	0	< 2			
02522954	1643	SHADY ACRES MHP	CHATHAM	7 -1-81	8107	0	< 2			
01623775	1644	LEES RIVERSIDE ESTS.	BULLOCH	7 -1-81	8107	0	< 2			
01634482	1645	NELSON LAW WATER SYS	BULLOCH	7 -1-81	8107	0	< 2			
15124504	1646	WAYNE SUBSTANCE ABUSE	WAYNE	7 -1-81	8107	0	< 2			
02522750	1647	POSS MHP	CHATHAM	7 -1-81	8107	0	< 2			
02514003	1648	MORGAN MHP	CHATHAM	7 -1-81	8107	0	< 2			
0821430	1649	CANNON BLUFF WTR ASO	MCINTOSH	7 -1-81	8107	0	< 2			

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ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
401602267	1650	JUNE BARRIER S/D	BULLOCH	7-1-81	8107	0	< 2			
409215517	1651	SPORTSMAN COVE S/D	LOWNDES	7-1-81	8107	0	< 2			
409215517	1652	VALDOSTA COUNTRY CLB	LOWNDES	7-1-81	8107	0	2 + 1			
409215058	1653	MOODY AFB	LOWNDES	7-1-81	8107	0	< 1			
309209221	1654	SUGAR CREEK TEXTILE	LOWNDES	7-1-81	8107	0	< 2			
309221845	1655	BARRETT'S MHC	LOWNDES	7-1-81	8107	0	2 + 1			
303523701	1656	DEMOTT S/D	COLQUITT	7-1-81	8107	0	< 2			
304004078	1657	CRISP COUNTY FARM	CRISP	7-1-81	8107	0	< 2			
311822049	1658	CHATTAHOOCHEE PLANT.	QUITMAN	7-1-81	8107	0	< 1			
409227965	1659	GREEN OAKS MH	LOWNDES	7-1-81	8107	0	< 1			
409227992	1660	MULLS MHP	LOWNDES	7-1-81	8107	0	< 2			
310621599	1661	POST TRAILER PARK	MUSCOGEE	7-1-81	8107	0	< 1			
304321801	1662	FLINTWOOD S/D	DECATUR	7-1-81	8107	0	< 1			
313311710	1663	BIB MFG. PLT. LAUREL	TAYLOR	7-1-81	8107	0	3 + 1			
313623576	1664	OAKLANE S/D	THOMAS	7-1-81	8107	0	2 + 1			
304722246	1665	USMC LOGISTICS	DOUCHERY	7-1-81	8107	0	< 2			
314321165	1666	EAST OCMULGEE ACRES	TWIGGS	9-14-81	8109	4	2 + 1			
307024437	1667	ISLAND CREEK S/D	HANCOCK	9-8-81	8109	4	8 + 3	1.8	1.4	2 + 1
309609450	1668	BUENA VISTA, CITY OF	MARION	9-14-81	8109	4	2 + 1			
NO ID	1669	SKY VALLEY		9-14-81	8109	4	< 1			
307024437	1670	ISLAND CREEK S/D	HANCOCK	9-8-81	8109	4	16 + 4	5.9	1.3	
314321165	1671	EAST OCMULGEE ACRES	TWIGGS	9-14-81	8109	4	2 + 1			
302517064	1672	SANGRENA WOODS WATER	CHATHAM	9-9-81	8109	4	< 2			
NO ID	1673	KENDALL CREEK		9-17-81	8109	4	< 1			
304304158	1674	ATTAPULGUS, CITY OF	DECATUR	8-5-81	8109	3	18 + 6	12.8	< 1.0	
413721811	1675	COUNTRY HAVEN MHP	TIFT	8-11-81	8109	3	74 + 9	74.3	< 1.0	< 2
301000475	1676	ENIGMA, CITY OF	PERRIEN	8-13-81	8109	3	8 + 5	6.8	< 1.0	< 2
313717743	1677	PINE HILL MOBILE HOME	TIFT	8-11-81	8109	3	23 + 5	26.5	1.3	< 2
309409298	1678	MARSHALLVILLE, CITY OF	MACON	8-25-81	8109	3	11 + 2	5.1	4.5	
309609450	1679	BUENA VISTA, CITY OF	MARION	8-5-81	8109	3	4 + 2	2.4		
301000466	1680	ALAPOHA, CITY OF	PERRIEN	7-22-81	8109	3	7 + 3	7.7	< 1.0	
301614335	1681	THE BARN MHP	BULLOCH	8-26-81	8109	1	< 2			
02101627	1682	PULASKI, CITY OF	CANDLER	8-27-81	8109	1	< 2			
08714634	1683	ROCKDALE S/D	LAURENS	8-26-81	8109	1	< 2			
33203155	1684	ST. REGIS PAPER-FARGO	CLINCH	9-10-81	8109	1	2 + 2			
12411088	1685	NEWINGTON, CITY OF	SCREVEN	8-25-81	8109	1	< 2			
31100667	1686	BRECKENRIDGE SOUTH	ELBE	9-3-81	8109	1	< 1			
1602498	1687	RIDGEVIEW APTS.	BULLOCH	8-26-81	8109	1	< 2			
5124504	1688	WAYNE SUBSTANCE APE	WAYNE	8-14-81	8109	1	< 2			
30100026	1689	SURRENCY, CITY OF	APPLING	9-8-81	8109	1	< 2			
602355	1690	MILLCREEK MOBILE ESTS	BULLOCH	8-26-81	8109	1	< 2			
3511848	1691	DAWSON, CITY OF	TERRELL	9-16-81	8109	4	< 2			
504259	1692	CHESTER, CITY OF	DODGE	9-2-81	8109	1	< 2			
319310	1693	JOHN ALFORD S/D	MCINTOSH	9-10-81	8109	1	< 2			
321708	1694	DIXIE APTS & TP	LIBERTY	8-19-81	8109	1	< 2			
302178	1695	GARDEN ACRES SD	CHATHAM	9-15-81	8109	1	< 2			
113610	1696	GORDEN, CITY OF	WILKINSON	9-8-81	8109	1	4 + 2	1.3		
02275	1697	OGEECHEE FARMS SD	CHATHAM	8-11-81	8109	1	< 2			
36073	1698	KITE, CITY OF	JOHNSON	9-3-81	8109	1	< 2			
31541	1699	ST. MARYS, CITY OF	CAMDEN	8-14-81	8109	1	< 4			

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ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
401602504	1700	FRINK'S MHP	BULLOCH	8-27-81	8109	1	< 2			
404306878	1701	SANDY ACRES MHP	DECATUR	8-5-81	8109	1	< 1			
300100071	1702	GA PART CHILDRENS H	APPLING	9-8-81	8109	1	< 2			
309821078	1703	BRIAR PATCH COMM	MCINTOSH	9-10-81	8109	1	< 3			
303503420	1704	DOERUN, CITY OF	COLQUITT	8-3-81	8109	1	2 + 2			
309821430	1705	CANNON BLUFF	MCINTOSH	9-10-81	8109	1	< 2			
401201655	1706	VISTA PINES APT	BLECKLEY	9-11-81	8109	1	< 2			
303503466	1707	NORMAN PARK, CITY OF	COLQUITT	8-18-81	8109	1	< 2			
301113920	1708	HAWAIIAN VILLAGE MHP	BIBB	9-2-81	8109	1	< 2			
401201673	1709	SANDHILL SD	BLECKLEY	9-11-81	8109	1	< 2			
000000000	1710	JOE BROWN SPRING		9-25-81	8109	4	< 1			
301601063	1711	STATESBORO, CITY OF	BULLOCH	9-23-81	8109	4	< 2			
406914352	1712	CHEROKEE ROSE CC	LIBERTY	8-27-81	8109	1	< 2			
309821087	1713	JONES COMMUNITY	MCINTOSH	9-10-81	8109	1	< 3			
315114748	1714	SPRING GROVE ACRES	WAYNE	8-14-81	8109	1	< 3			
310309877	1715	MONTGOMERY CO CORREC	MONTGOMERY	9-15-81	8109	1	2 + 2			
400300300	1716	LEE MHP	BACON	9-17-81	8109	1	< 2			
301500957	1717	BRYAN ACRES	BRYAN	9-16-81	8109	1	< 2			
301500966	1718	BRYAN WOODS SD	BRYAN	9-16-81	8109	1	< 2			
301601054	1719	REGISTER	BULLOCH	9-16-81	8109	1	< 2			
301501011	1720	STRATHY HALL	BRYAN	9-24-81	8109	1	< 2			
400300294	1721	HIGHLAND PARK SD	BACON	9-21-81	8109	1	< 2			
301501002	1722	LINCOLN RIVER EST	BRYAN	9-16-81	8109	1	< 2			
301500948	1723	BLACK CREEK FARMS SD	BRYAN	9-16-81	8109	1	< 2			
301500964	1724	CAFE HARDWICK	BRYAN	9-16-81	8109	1	2 + 2			
401602249	1725	FRANKVILLE WATER ASSN	BULLOCH	9-17-81	8109	1	2 + 2			
302502318	1726	PINE BARREN ACRES	CHATHAM	8-11-81	8109	1	< 2			
301601036	1727	NEVILS WATER ASSN	BULLOCH	9-17-81	8109	1	< 2			
407913064	1728	JASPER CO CORREC INS	JASPER	9-16-81	8109	1	< 2			
308308091	1729	WRIGHSVILLE, CITY OF	JOHNSON	9-16-81	8109	1	< 3			
312411097	1730	OLIVER, CITY OF	SCREVEN	8-25-81	8109	1	< 2			
300117114	1731	VILLAGE HOME PARK	APPLING	8-26-81	8109	1	3 + 2	2.0		
302502363	1732	RIVER'S END SD	CHATHAM	9-14-81	8109	1	< 2			
302515732	1733	NASSAU WOODS	CHATHAM	9-15-81	8109	1	< 2			
03503545	1734	CLUBVIEW SD	COLQUITT	8-3-81	8109	1	< 3			
02502060	1735	SOUTHERN FOUNT'N MHP	CHATHAM	8-11-81	8109	1	< 2			
30914477	1736	MIDWAY NURSING INN	LIBERTY	8-27-81	8109	1	< 2			
302515778	1737	COMMODORE POINT	CHATHAM	8-25-81	8109	1	< 2			
31634482	1738	NELSON LAW SD	BULLOCH	9-17-81	8109	1	< 2			
31333831	1739	COUNTRY MANOR MHP	LONG	8-27-81	8109	1	< 2			
3413372	1740	HODGE TP	JONES	9-2-81	8109	1	5 + 3	1.9		
4414834	1741	COOSA WATER AUTH	UNION	9-2-81	8110	1	< 1			
3005575	1742	LANIER FOREST SD	FORSYTH	9-16-81	8110	1	2 + 1			
301782	1743	CATOOSA CO WATER SYS	CATOOSA	9-24-81	8110	1	< 2			
204124	1744	DAWSONVILLE, CITY OF	DAWSON	9-10-81	8110	1	< 1			
222980	1745	ROLLING VIEW HOME AS	CARROLL	9-10-81	8110	1	< 1			
412591	1746	NOTLA WATER AUTH	UNION	9-2-81	8110	1	< 1			
412564	1747	BLAIRSVILLE, CITY OF	UNION	9-2-81	8110	1	1 + 1			
307488	1748	LAKEVIEW MHP	HENRY	9-9-81	8110	1	< 1			
309130	1749	WESLEY OAKS MHP	FORSYTH	9-16-81	8110	1	3 + 1			

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ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
305816063	1750	LANIER WOODS SD	FORSYTH	9-16-81	8110	1	< 1			
310810157	1751	NORTHWEST WOODS WATR	OCONEE	9 -9-81	8110	1	< 1			
306706732	1752	NORCROSS MH CITY	GWINNETT	9-22-81	8110	1	< 2			
307507406	1753	HAMPTON, CITY OF	HENRY	9-17-81	8110	1	< 2			
306706714	1754	SUWANEE, CITY OF	GWINNETT	9-22-81	8110	1	2 + 2			
305916501	1755	BRITTANY HARBOR WEST	FRANKLIN	9-25-81	8110	3	4 + 1	1.1		
307807814	1756	NICHOLSON, CITY OF	JACKSON	9-22-81	8110	3	3 + 2	0.3		
308708293	1757	RENTZ, TOWN OF	LAURENS	10 -5-81	8110	4	2 + 1			
314612850	1758	WALKER CO CORRECT IN	WALKER	9-28-81	8110	4	< 2			
304604317	1759	LILLY, CITY OF	DOOLY	9-21-81	8110	4	< 2			
401803219	1760	COUNTRY MHP	BUTTS	9-29-81	8110	4	< 2			
415124513	1761	ROSE MOTEL	WAYNE	9-29-81	8110	1	< 2			
308708293	1762	RENTZ, CITY OF	LAURENS	9-22-81	8110	1	< 2			
301723675	1763	DELAIGLE MHP	BURKE	9-23-81	8110	1	< 2			
401101560	1764	MACON HEALTH CARE C	BIBB	9-30-81	8110	1	< 1			
304518199	1765	EASTMAN MHP #2	DODGE	10 -1-81	8110	1	< 2			
304504268	1766	EASTMAN, CITY OF	DODGE	10 -1-81	8110	1	< 2			
409737297	1767	GREEN ACRES MHP	MCJUFFIE	9-24-81	8110	1	< 1			
307007128	1768	HANCOCK CO WS SYS	HANCOCK	9-29-81	8110	1	< 1			
308918852	1769	WALTHOURVILLE, CITY	LIBERTY	9-22-81	8110	1	< 2			
303503572	1770	SPENCETON SD #1	COLQUITT	9 -1-81	8110	1	< 3			
303516048	1771	TALIAKAS CIRCLE SD	COLQUITT	9 -1-81	8110	1	< 3			
313621118	1772	CRESTWOOD MH	THOMAS	9 -9-81	8110	1	< 3			
313712085	1773	FERRYLAKE MHP	TIFT	8-24-81	8110	1	< 2			
304304176	1774	BRINSON, TOWN OF	DECATUR	9-10-81	8110	4	< 1			
000000000	1775	WELLS TP		10 -5-81	8110	4	< 2			
307507503	1776	SWAN LAKE ESTATES	HENRY	10 -2-81	8110	4	7 + 2	0.5		
000000000	1777	MADISON, CITY OF		10-15-81	8110	4	< 1			
313624205	1778	SUGARWOOD ESTATES	THOMAS	9-29-81	8110	4	< 2			
408937207	1779	LAKEVIEW TP	LIBERTY	10 -5-81	8110	4	< 2			
409014583	1780	BLACKJACK WATER ASN	LINCOLN	10-19-81	8110	4	2 + 1			
213600991	1781	PINE LAKE EST	THOMAS	10-15-81	8110	4	4 + 2	1.1		
000000000	1782	BLAIRSVILLE, CITY OF		10-28-81	8110	4	3 + 1			
308708293	1783	RENTZ, CITY OF	LAURENS	10-21-81	8110	4	< 2			
304604344	1784	VIENNA, CITY OF	DOOLY	9 -1-81	8110	1	< 2			
410517233	1785	FORT MTN ESTATES	MURRAY	10-23-81	8110	1	1 + 1			
313618138	1786	LITTLE ACRES	THOMAS	9-17-81	8110	1	2 + 2			
405107630	1787	LAKE CHERIE MHP	EFFINGHAM	10-13-81	8110	1	< 2			
312611268	1788	CAEIN CREEK ESTATES	SPALDING	10-28-81	8110	1	< 2			
302814031	1789	FOUNTAIN IN LAKE MHP	CHEROKEE	10-19-81	8110	1	< 2			
313011612	1790	GENEVA, CITY OF	TALBOT	9-28-81	8110	1	< 1			
413621638	1791	CRESTWOOD MHP #1	THOMAS	9 -9-81	8110	1	< 3			
302502150	1792	ESTILLHAMMOCK EST	CHATHAM	10 -6-81	8110	1	< 3			
306916036	1793	MARLETTEE HEIGHTS	HALL	10 -2-81	8110	1	< 2			
302502284	1794	PALM'S MHP	CHATHAM	10 -7-81	8110	1	< 3			
302514395	1795	MELODY ACRES MHP	CHATHAM	10 -6-81	8110	1	< 3			
311210361	1796	PICKENS CO WATER	PICKENS	9-29-81	8110	1	< 1			
306320460	1797	WOODLAND MHP	GLYN	10-20-81	8110	1	< 2			
303503581	1798	SPENCETON SD #2	COLQUITT	9 -1-81	8110	1	< 3			
304304176	1799	BRINSON, TOWN OF	DECATUR	9-10-81	8110	1	< 2			

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ID #	SAMPLE WE #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
401602504	1700	FRINK'S MHP	BULLOCH	8-27-81	8109	1	< 2			
404306878	1701	SANDY ACRES MHP	DECATUR	8-5-81	8109	1	< 1			
300100071	1702	GA PART CHILDRENS H	APPLING	9-8-81	8109	1	< 2			
309821078	1703	BRIAR PATCH COMM	MCINTOSH	9-10-81	8109	1	< 3			
303503420	1704	DOERUN, CITY OF	COLQUITT	8-3-81	8109	1	2 + 2			
309821430	1705	CANNON BLUFF	MCINTOSH	9-10-81	8109	1	< 2			
401201655	1706	VISTA PINES APT	BLECKLEY	9-11-81	8109	1	< 2			
303503466	1707	NORMAN PARK, CITY OF	COLQUITT	8-18-81	8109	1	< 2			
301113920	1708	HAWAIIAN VILLAGE MHP	BIBB	9-2-81	8109	1	< 2			
401201673	1709	SANDHILL SD	BLECKLEY	9-11-81	8109	1	< 2			
000000000	1710	JOE BROWN STRING		9-25-81	8109	4	< 1			
301601063	1711	STATESBORO, CITY OF	BULLOCH	9-23-81	8109	4	< 2			
408914352	1712	CHEROKEE ROSE CC	LIBERTY	8-27-81	8109	1	< 2			
309821087	1713	JONES COMMUNITY	MCINTOSH	9-10-81	8109	1	< 3			
315114748	1714	SPRING GROVE ACRES	WAYNE	8-14-81	8109	1	< 3			
310309877	1715	MONTGOMERY CO CORREC	MONTGOMERY	9-15-81	8109	1	2 + 2			
400300300	1716	LEE MHP	BACON	9-17-81	8109	1	< 2			
301500957	1717	BRYAN ACRES	BRYAN	9-16-81	8109	1	< 2			
301500966	1718	BRYAN WOODS SD	BRYAN	9-16-81	8109	1	< 2			
301601054	1719	REGISTER	BULLOCH	9-16-81	8109	1	< 2			
301501011	1720	STRATHY HALL	BRYAN	9-24-81	8109	1	< 2			
400300294	1721	HIGHLAND PARK SD	BACON	9-21-81	8109	1	< 2			
301501002	1722	LINCOLN RIVER EST	BRYAN	9-16-81	8109	1	< 2			
301500948	1723	BLACK CREEK FARMS SD	BRYAN	9-16-81	8109	1	< 2			
301500964	1724	CAFE HARDWICK	BRYAN	9-16-81	8109	1	2 + 2			
401602249	1725	FRANKVILLE WATER ASN	BULLOCH	9-17-81	8109	1	2 + 2			
302502318	1726	PINE BARREN ACRES	CHATHAM	8-11-81	8109	1	< 2			
301601036	1727	NEVILS WATER ASSN	BULLOCH	9-17-81	8109	1	< 2			
407913064	1728	JASPER CO CORREC INS	JASPER	9-16-81	8109	1	< 2			
308308091	1729	WRIGHTSVILLE, CITY OF	JOHNSON	9-16-81	8109	1	< 3			
312411097	1730	OLIVER, CITY OF	SCREVEN	8-25-81	8109	1	< 2			
300117114	1731	VILLAGE HOME PARK	APPLING	8-26-81	8109	1	3 + 2	2.0		
302502363	1732	RIVER'S END SD	CHATHAM	9-14-81	8109	1	< 2			
302515732	1733	NASSAU WOODS	CHATHAM	9-15-81	8109	1	< 2			
303503545	1734	CLEVIEW SD	COLQUITT	8-3-81	8109	1	< 3			
302502080	1735	SOUTHERN FOUNT'N MHP	CHATHAM	8-11-81	8109	1	< 2			
408914477	1736	MIDWAY NURSING INN	LIBERTY	8-27-81	8109	1	< 2			
302515778	1737	COMMODORE POINT	CHATHAM	8-25-81	8109	1	< 2			
401634482	1738	NELSON LAW SD	BULLOCH	9-17-81	8109	1	< 2			
409133831	1739	COUNTRY MANOR MHP	LONG	8-27-81	8109	1	< 2			
408413372	1740	HODGE TP	JONES	9-2-81	8109	1	5 + 3	1.9		
314414834	1741	COOSA WATER AUTH	UNION	9-2-81	8110	1	< 1			
305805575	1742	LANIER FOREST SD	FORSYTH	9-16-81	8110	1	2 + 1			
302301782	1743	CATOOSA CO WATER SYS	CATOOSA	9-24-81	8110	1	< 2			
304204124	1744	DAWSONVILLE, CITY OF	DAWSON	9-10-81	8110	1	< 1			
302222980	1745	ROLLING VIEW HOME AS	CARROLL	9-10-81	8110	1	< 1			
314412591	1746	NOTLA WATER AUTH	UNION	9-2-81	8110	1	< 1			
314412564	1747	BLAIRSVILLE, CITY OF	UNION	9-2-81	8110	1	1 + 1			
307507488	1748	LAKEVIEW MHP	HENRY	9-9-81	8110	1	< 1			
405809130	1749	WESLEY OAKS MHP	FORSYTH	9-16-81	8110	1	3 + 1			

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ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	IAP DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
314012283	1850	SOPERTON, CITY OF	TREUTLEN	11-4-81	8111	1	2 + 2			
313812189	1851	SANTA CLAUS, CITY OF	TOOMBS	11-4-81	8111	1	< 3			
307007100	1852	DEVEREUX WATER WORKS	HANCOCK	11-9-81	8111	1	3 + 1			
308920884	1853	FLOYDS MHP	LIBERTY	11-5-81	8111	1	< 3			
315613546	1854	PITTS, CITY OF	WILCOX	11-3-81	8111	1	< 4			
315613564	1855	SEVILLE, CITY OF	WILCOX	11-3-81	8111	1	< 3			
303603737	1856	MARTINEZ WATER CO.	COLUMBIA	11-6-81	8111	1	5 + 2	< 0.1		
408933436	1857	SALTER MHP	LIBERTY	11-0-81	8111	1	< 3			
410216947	1858	HILLTOP NURSING HOME	MONROE	11-3-81	8111	1	< 3			
305304948	1859	AIRIAN, CITY OF	EMANUEL	11-3-81	8111	1	< 3			
311615629	1860	ARNOLDS MHP	PULASKI	11-5-81	8111	1	< 3			
305122016	1861	FOXBOW FARMS S/D	EFFINGHAM	11-4-81	8111	1	< 3			
401501966	1862	CONLEY MHP	ERYAN	11-4-81	8111	1	< 3			
302524075	1863	SAVANNAH, WELL #26	CHATHAM	11-5-81	8111	5	< 3			
NO ID	1864	NICKOLES MINISTRIES		11-12-81	8111	1	< 3			
312110808	1865	CASTLE PINES MHP	RICHMOND	11-10-81	8111	0	< 2			
315113338	1866	WAYNE CORRECT. INST	WAYNE	11-12-81	8111	1	< 3			
312715054	1867	TOCCOA FALLS COLLEGE	STEPHENS	10-27-81	8111	1	2 + 2			
312715054	1868	TOCCOA FALLS COLLEGE	STEPHENS	10-27-81	8111	1	3 + 1			
307807814	1869	NICHOLSON, CITY OF	JACKSON	11-16-81	8111	3	2 + 1			
311210370	1870	BENT TREE COUNTRY C	PICKENS	11-17-81	8111	0	< 2			
315416727	1871	PEACEFUL VALLEY	WHITE	11-4-81	8111	2	3 + 1			
308823992	1872	GLENDALE SD	LEE	11-16-81	8111	4	< 2			
309319917	1873	CRISSON'S WATER SYS	LUMPKIN	11-19-81	8111	4	4 + 2	3.1		
413721811	1874	COUNTRY HAVEN MHP	TIFT	11-1-81	8111	3	81 + 9	74.0	< 1.0	
405826874	1875	SUNDOWN SD	FORSYTH	10-29-81	8111	1	< 4			
409416000	1876	OAKS NURSING HOME	MACON	11-16-81	8111	1	4 + 2	1.0		
303423263	1877	EVANS #1	COFFEE	11-18-81	8111	1	< 4			
306306266	1878	IRIFTWOOD MHP	GLYNN	11-18-81	8111	1	< 4			
315013216	1879	SANDERSVILLE, CITY	WASHINGTON	11-13-81	8111	1	< 3			
403405426	1880	EVANS #2	COFFEE	11-18-81	8111	1	< 3			
314913146	1881	CAMAK	WARREN	11-18-81	8111	6	108 + 8	1.4	< 1.0	
408027560	1882	EDGEWOOD MHP	JEFF DAVIS	11-19-81	8111	1	4 + 2	3.4	< 1.0	
310309859	1883	TARRYTOWN, TOWN OF	MONGOMERY	11-24-81	8111	4	31 + 6	23.8	< 1.0	
305916501	1884	BRITTANY HARBOR WEST	FRANKLIN	11-23-81	8111	4	7 + 2	1.6		
307307341	1885	TUGALOO BAY ESTATES	HART	11-23-81	8111	3	17 + 4	9.1	< 1.0	
306306345	1886	SHADY ACRES MHP	GLYNN	11-18-81	8111	1	< 3			
303403405	1887	HILLSIDE TP	COFFEE	11-18-81	8111	1	7 + 3	5.3	< 1.0	
302522176	1888	HUNTER ARMY AIRFIELD	CHATHAM	11-17-81	8111	1	< 3			
311210389	1889	EIG CANOE SD	PICKENS	11-20-81	8111	1	< 2			
306306424	1890	SEA ISLAND	GLYNN	11-18-81	8111	1	< 4			
414523436	1891	UPSON CO PRISON CAMP	UPSON	11-24-81	8111	1	2 + 2			
309509392	1892	COMER, CITY OF	MADISON	11-18-81	8111	1	< 2			
302522112	1893	MATTHEWS MHP	CHATHAM	11-16-81	8111	1	< 3			
303414072	1894	PARKVIEW TP	COFFEE	11-16-81	8112	4	< 3			
309909576	1895	GREENVILLE, CITY OF	MERIWETHER	11-30-81	8112	4	4 + 2	0.2		
315813610	1896	GORDON, CITY OF	WILKINSON	11-24-81	8112	3	10 + 2	1.8	8.3	
307619833	1897	MEADOW HAVEN TP	HOUSTON	11-24-81	8112	1	19 + 3	11.7	2.7	
300800326	1898	WHITE, CITY OF	BARTOW	11-30-81	8112	4	< 2			
303103130	1899	ROYAL COURT MHP	CLAYTON	11-19-81	8112	3	40 + 5	7.0	< 1.0	

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ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
303117326	1900	DOULE E MHP	CLAYTON	11-19-81	8112	1	15 + 3	0.4	1.0	
305916501	1901	BRITTANY HARBOR WEST	FRANKLIN	11-23-81	8112	3	6 + 2	1.9		
305916422	1902	BRITTANY HARBOR #2	FRANKLIN	11-23-81	8112	3	42 + 6	11.0	1.4	
311710551	1903	FOREST LAKE VILL SD	PUTNAM	11-18-81	8112	1	< 3			
303216083	1904	DUFONT	CLINCH	11-24-81	8112	1	< 3			
315713570	1905	RAYLE WATER ASSN	WILKES	11-24-81	8112	1	< 3			
302915846	1906	SEMINOLE MHP	CLARKE	12 -1-81	8112	3	47 + 5	9.2	< 1.0	
314812960	1907	MANOR WATER ASSN	WARE	11-23-81	8112	1	< 4			
305304957	1908	CARFIELD, CITY OF	EMANUEL	11-24-81	8112	1	< 3			
303203146	1909	HOMERVILLE	CLINCH	11-24-81	8112	1	< 4			
411734345	1910	DOGWOOD MHP	PUTNAM	11-20-81	8112	1	3 + 3	0.2		
301500957	1911	STRATHY HALL SD	RYAN	11-27-81	8112	4	< 3			
305321673	1912	LAKE LUCK	EMANUEL	12 -1-81	8112	1	2 + 2			
405308035	1913	RANCH PARK	EMANUEL	12 -1-81	8112	1	< 3			
313411744	1914	LUMBER CITY	TELFAR	12 -2-81	8112	1	3 + 1			
301100658	1915	SHELTERING PINES MHP	BIBB	12 -4-81	8112	1	2 + 1			
306922181	1916	FORT STEWART	LIBERTY	11-30-81	8112	1	< 2			
305321683	1917	DEALVA PARK	EMANUEL	12 -1-81	8112	1	< 3			
312311063	1918	ELLAVILLE, CITY OF	SCHLEY	12-10-81	8112	4	3 + 1			
309609450	1919	BUENA VISTA, CITY OF	MARION	12-11-81	8112	4	5 + 1	2.8		
307024437	1920	ISLAND CREEK	HANCOCK	12-16-81	8112	4	< 2			
000000000	1921	SCENIC SHORES WELL#2		12-16-81	8112	4	11 + 4	0.6	< 1.0	
311722990	1922	TALL TIMEERS well#3	PUTNAM	12-16-81	8112	4	2 + 2			
301623553	1923	COUNTRY LAKES SD	BULLOCH	12 -9-81	8112	4	< 2			
311722990	1924	TALL TIMEERS WELL#1	PUTNAM	12-16-81	8112	4	82 + 6	1.2	3.1	
000000000	1925	SCENIC SHORES well#3		12-16-81	8112	4	6 + 2	0.5		
309409298	1926	MARSHALLVILLE, CITY	MACON	12-14-81	8112	4	10 + 2	4.7	3.3	
301114279	1927	BALKCON'S MHP	BIBB	12-11-81	8112	4	< 2			
000000000	1928	SCENIC SHORES WELL#1		12-16-81	8112	4	< 2			
402904762	1929	REYNOLDS MHP	CLARKE	12 -9-81	8112	4	2 + 2			
408413345	1930	BECK'S MHP	JONES	12 -4-81	8112	1	< 3			
402938196	1931	FAIRFAX HALL	CLARKE	12 -9-81	8112	1	< 2			
310218618	1932	DAVIS MHP	MONROE	12 -9-81	8112	1	20 + 4			
301601045	1933	PORTAL CITY	PULLOCH	12-10-81	8112	1	< 3			
301623368	1934	COUNTRY CLUB HILLS	BULLOCH	12 -9-81	8112	1	< 2			
401631164	1935	ZETTEROWER TP	BULLOCH	12 -9-81	8112	1	< 3			
401602771	1936	YOUNGECOD MHP	BULLOCH	12-10-81	8112	1	< 3			
313411771	1937	SCOTLAND WATER SYS	TELFAR	12 -8-81	8112	1	3 + 2	2.8		
301601179	1938	FORREST HEIGHTS SD	BULLOCH	12-10-81	8112	1	< 3			
401602276	1939	COACH HOUSE EST SD	BULLOCH	12 -9-81	8112	1	< 3			
315813601	1940	ALLENTOWN, CITY OF	WILKINSON	11-17-81	8201	4	< 2			
307807814	1941	NICHOLSON, CITY OF	JACKSON	12-16-81	8201	4	2 + 1			
313411762	1942	MILAN, CITY OF	TELFAR	12-22-81	8201	1	5 + 2	2.2		
315313378	1943	GLENWOOD, CITY OF	WHEELER	12-15-81	8201	1	3 + 2	2.1		
405107685	1944	RED GATE MHP	EFFINGHAM	12-15-81	8201	1	< 2			
313411762	1945	MILAN, CITY WELL#2	TELFAR	12-22-81	8201	1	2 + 2			
313411762	1946	MILAN, CITY WELL#3	TELFAR	12-22-81	8201	1	5 + 2	0.4		
312010713	1947	PATTERSON HOSPITAL	RANDOLPH	11-18-81	8201	1	< 3			
415244434	1948	BON AIR APTS	WEESTER	1 -4-82	8201	1	< 2			
315713589	1949	TIGNALL, CITY OF	WILKES	12-14-81	8201	1	11 + 3	0.4	< 1.0	

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ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAP DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
305104769	1950	GUYTON, CITY OF	EFFINGHAM	12-15-81	8201	1	< 2			
303403399	1951	OAK PARK SD	COFFEE	1 -4-82	8201	1	4 + 2	0.8		
000000000	1952	RICCONNUCK KNOLL SD		11-24-81	8201	4	< 2			
312511207	1953	IRON CITY	SEMINOLE	11-12-81	8201	1	< 2			
306408104	1954	GRAY, CITY OF	JONES	12-14-81	8201	4	< 3			
314813121	1955	BAPTIST VILLAGE	WARE	12-15-81	8201	1	3 + 2	2.4		
304704420	1956	BYRON LAKE ESTATES	DOUGHERTY	11 -9-81	8201	1	< 3			
000000000	1957	RICHMOND CO WELL #4		1 -7-82	8201	4	< 2			
000000000	1958	RICHMOND CO WELL #3		1 -6-82	8201	4	< 2			
301500902	1959	RICHMOND HILL, CITY	IRYAN	1-14-82	8201	1	< 3			
301300777	1960	HOBOKEN, CITY OF	BRANTLEY	1 -7-82	8201	1	< 4			
309008774	1961	LINCOLNTON WATER SYS	LINCOLN	12-29-81	8201	1	< 3			
307114578	1962	HARALSON CO WATER AU	HARLSON	12-23-81	8201	1	2 + 2			
313211634	1963	COBETOWN, CITY OF	TATTNAIL	1 -6-82	8201	1	< 3			
313411753	1964	MCRAE, CITY OF	TELFAR	1 -8-82	8201	1	4 + 3	3.1		
311310395	1965	BLACKSHEAR, CITY OF	PIERCE	1-19-82	8201	1	< 4			
305304966	1966	OAK PARK, CITY OF	EMANUEL	1 -6-82	8201	1	6 + 3	4.2		
410328374	1967	WILLWOOD MHP	MONTGOMERY	1 -6-82	8201	2	9 + 3	5.5	< 1.0	
314712884	1968	SOCIAL CIRCLE	WALTON	12-30-81	8201	1	< 3			
305101768	1969	GUYTON, CITY OF	EFFINGHAM	1-13-81	8201	1	< 3			
312110835	1970	GATE 5 MHP	RICHMOND	1 -6-82	8201	1	< 2			
301113902	1971	EASY LIVING TP	BIEB	1 -5-82	8201	1	2 + 2			
301316826	1972	WHISPERING PINES SD	BRANTLEY	1-14-82	8201	1	2 + 2			
302517084	1973	SANGRENA WOODS SD	CHATHAM	1-12-82	8201	1	< 3			
307807805	1974	JEFFERSON	JACKSON	12-17-81	8201	1	< 2			
306006016	1975	ROSWELL	FULTON	12-18-81	8201	1	< 2			
305705277	1976	FLOYD CO WATER SYS	FLOYD	12-22-81	8201	1	< 3			
305324478	1977	SYCAMORE MOBILE VIL	EMANUEL	1-12-82	8201	1	< 3			
314712875	1978	MONROE WATER SYSTEM	WALTON	12-30-81	8201	1	< 2			
314812988	1979	WAYCROSS, CITY OF	WARE	1 -7-82	8201	1	< 4			
311210343	1980	JASPER	PICKENS	12-16-81	8201	1	< 2			
313211661	1981	MANASSAS, CITY OF	TATTNAIL	1 -2-82	8201	1	< 4			
413232100	1982	BEARD'S CREEK MHP	TATTNAIL	1 -6-82	8201	1	< 3			
313111628	1983	CRAWFORDVILLE, CITY	TALIAFERRO	1 -6-82	8201	1	< 4			
302502071	1984	BLOOMINGDALE, CITY OF	CHATHAM	1-12-82	8201	1	< 3			
302522945	1985	LIVE OAK MHP	CHATHAM	1-12-82	8201	1	< 3			
405107588	1986	GLEN-LEE MHP	EFFINGHAM	1-13-82	8201	1	< 3			
305705277	1987	FLOYD CO WATER SYS	FLOYD	12-22-81	8201	1	< 3			
310309859	1988	TARRYTOWN, CITY OF	MONTGOMERY	1 -6-82	8201	1	35 + 4	44.0	< 1.0	
405335538	1989	NUNEZ, CITY OF	EMANUEL	1 -6-82	8201	1	< 4			
305304975	1990	STILLMORE, CITY OF	EMANUEL	1-14-82	8201	1	< 4			
311722990	1991	TALL TIMBERS WELL #1	PUTNAM	1-25-82	8201	4	11 + 3	0.7		
405236534	1992	NORTHWOOD HILLS SD	ELBERT	1-19-82	8201	4	2 + 2			
306706644	1993	GRAYSON, CITY OF	GWINNETT	1 -5-82	8201	4	21 + 2	1.0	1.2	
409227983	1994	KERSEY MHP	LOWNDES	1-25-82	8201	4	< 4			
000000000	1995	ILA, TOWN OF		1-26-82	8201	4	2 + 1			
306907058	1996	SHADY GROVE TP	HALL	1-27-82	8201	4	< 3			
305614735	1997	LONG'S MHP	FAYETTE	12-29-81	8201	1	< 2			
302501917	1998	GARDEN CITY, CITY OF	CHATHAM	1-21-82	8201	1	< 3			
313411735	1999	JACKSONVILLE, CITY OF	TELFAR	1-18-82	8201	1	< 4			

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302515787	2000	DERENNE APTS	CHATHAM	1-21-82	8201	1	< 4			
401602461	2001	WESTCHESTER SD	BULLOCH	1-19-82	8201	1	< 4			
307619833	2002	MEADOW HAVEN TP	HOUSTON	1-20-82	8201	2	22 + 2	14.9	4.0	
301601188	2003	GROVE LAKES SD	BULLOCH	1-19-82	8201	1	< 4			
305605191	2004	FAYETTE MHP	FAYETTE	1-1-82	8201	1	< 3			
307614722	2005	BAKER'S MH RANCH	HOUSTON	1-19-82	8201	1	< 3			
301601081	2006	GA SOUTHERN COLLEGE	BULLOCH	1-19-82	8201	1	< 4			
401803273	2007	JACKSON LAKE MHP	BUTTS	12-17-82	8201	1	< 3			
407612440	2008	BIRDSONG MHP	HOUSTON	1-20-82	8201	1	6 + 1	4.0		
310710071	2009	ABIDE-A-WHILE MHP	NEWTON	1-21-82	8201	1	< 3			
410717468	2010	TRUEL'S MHP	NEWTON	1-21-82	8201	1	< 3			
305805520	2011	HOMESTEADERS MHP	FORSYTH	12-21-81	8201	1	8 + 2	0.8		
302501962	2012	TYBEE ISLAND, CITY OF	CHATHAM	1-20-82	8201	1	< 4			
301521812	2013	HAZELWOOD SD	RYAN	1-19-82	8201	1	< 3			
306806793	2014	DEMOREST, CITY OF	HABERSHAM	1-12-82	8201	1	2 + 2			
314712866	2015	JERSEY, CITY OF	WALTON	12-22-81	8201	3	< 3			
312617053	2016	PINECREST SD	SPALDING	1-20-82	8201	1	16 + 3	1.6	< 1.0	
306906903	2017	FLOWERY BRANCH, CITY	HALL	1-7-82	8201	1	< 3			
403834695	2018	SHOAL CREEK	COWETA	1-20-82	8201	3	< 2			
410728488	2019	PRICE SD	NEWTON	1-21-82	8201	1	< 3			
307519988	2020	POOLES MHP	HENRY	1-21-82	8201	1	< 2			
305705268	2021	CAVE SPRING, CITY OF	FLOYD	1-1-82	8201	1	< 3			
301801456	2022	PINEVIEW SD	BUTTS	12-17-81	8201	1	< 2			
305805672	2023	SHARON SPRINGS SD	FORSYTH	12-21-82	8201	1	< 3			
405236534	2024	NORTHWOOD HILLS	ELBERT	1-27-82	8202	4	2 + 2			
308924947	2025	GUY H WELLS TP	LIBERTY	1-25-82	8202	4	< 3			
412921195	2026	KOINONIA VILLAGE	SUMTER	2-2-82	8202	4	< 4			
412921195	2027	KOINONIA-FOREST HK	SUMTER	2-2-82	8202	4	< 3			
305905776	2028	CANON, CITY OF	FRANKLIN	1-27-82	8202	1	< 3			
306306318	2029	PROUD ACRES MHP	GLYNN	1-28-82	8202	1	< 3			
406309952	2030	OAK ACRES SD	GLYNN	1-28-82	8202	1	< 4			
303503457	2031	MOULTRIE, CITY OF	COLQUITT	12-22-81	8202	1	< 4			
306306275	2032	DRUID HILLS MHP	GLYNN	1-28-82	8202	1	< 4			
301701291	2033	VIDETTE, CITY OF	BURKE	1-21-82	8202	0	< 3			
312110747	2034	HEPHZIBAH, CITY OF	RICHMOND	1-27-82	8202	1	< 2			
305905794	2035	FRANKLIN SPRINGS	FRANKLIN	1-26-82	8202	1	< 3			
301701273	2036	MIDVILLE, CITY OF	BURKE	1-20-82	8202	1	< 4			
311410453	2037	WILLIAMSON, CITY OF	PIKE	1-28-82	8202	1	< 2			
307507503	2038	SWAN LAKE ESTATES	HENRY	1-28-82	8202	1	< 3			
305204899	2039	BOWMAN, CITY OF	ELBERT	1-27-82	8202	1	< 3			
02502512	2040	YACHT&COUNTRY CLUB	CHATHAM	2-8-82	8202	1	< 3			
310209755	2041	CULLODEN, CITY OF	MONROE	2-3-82	8202	1	< 4			
01602373	2042	NEWTON'S MHP	BULLOCH	2-9-82	8202	1	< 4			
05304993	2043	SWAINSBORO, CITY OF	EMANUEL	2-2-82	8202	1	< 4			
05304984	2044	SUMMERTOWN, CITY OF	EMANUEL	2-2-82	8202	1	< 3			
09208820	2045	VALDOSTA, CITY OF	LOWNDES	2-10-82	8202	1	< 4			
06916124	2046	LAKE LANIER MHP	HALL	2-8-82	8202	1	< 3			
13812222	2047	PETROSS WATER SYS	TOOMES	2-9-82	8202	1	< 4			
02521766	2048	WHITFIELD PARK SD	CHATHAM	2-8-82	8202	1	< 3			
15813656	2049	TOOMESBORO, CITY OF	WILKINSON	2-4-82	8202	1	< 3			

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: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
202530545	2050	WHITE OAKS SD	CHATHAM	2-8-82	8202	1	< 3			
401602453	2051	WALTER'S MHP	BULLOCH	2-9-82	8202	1	< 4			
313411726	2052	HELENA, CITY OF	TELFAIR	2-4-82	8202	1	< 4			
309825089	2053	HIGHLAND PARK SD	MCINTOSH	2-4-82	8202	4	< 4			
301601203	2054	301 TRAILER PARK	BULLOCH	2-8-82	8202	1	< 4			
302502415	2055	SOUTHWINDS SD	CHATHAM	2-8-82	8202	1	< 3			
314712927	2056	JACKSON MHP	WALTON	2-5-82	8202	1	2 + 2			
313812198	2057	VIDALIA, CITY OF	TOOMES	2-8-82	8202	1	< 4			
303815930	2058	KAND M MHP	COWETA	2-10-82	8202	1	< 3			
313812170	2059	LYONS, CITY OF	TOOMES	2-9-82	8202	1	< 4			
413837347	2060	CENTER HILL MHP	TOOMES	2-8-82	8202	1	< 4			
303803935	2061	UTILITIES RES., INC.	COWETA	2-10-82	8202	1	< 4			
301601063	2062	STATESBORO, CITY OF	BULLOCH	2-8-82	8202	1	< 4			
402533342	2063	COFFEE BLUFF WOODS	CHATHAM	2-8-82	8202	1	< 4			
302502354	2064	RIO VISTA SD	CHATHAM	2-8-82	8202	1	< 4			
310309877	2065	MONTGOMERY CORR INST	MONTGOMERY	2-15-82	8202	4	< 4			
308308082	2066	SCOTT WATER&SEWER AU	JOHNSON	2-10-82	8202	1	< 4			
312621151	2067	MASSINGILL TP	SPALDING	2-1-82	8202	1	< 2			
305305002	2068	TWIN CITY, CITY OF	EMANUEL	2-9-82	8202	1	< 4			
303503624	2069	SPENCEFIELD AIRPORT	COLQUITT	1-21-82	8202	1	< 4			
311210361	2070	PICKENS CO WATER SY	PICKENS	2-11-82	8202	4	< 2			
412629023	2071	LOCKWOOD ESTATES	SPALDING	2-16-82	8202	1	< 3			
309016740	2072	CHEROKEE RETREAT WS	LINCOLN	2-10-82	8202	1	< 4			
305605234	2073	ROLLING MEADOWS EST	FAYETTE	2-4-82	8202	1	< 3			
307707729	2074	IRWINVILLE WATERWORK	IRWIN	1-11-82	8202	1	< 3			
305605216	2075	DIX LEE ON ESTATE	FAYETTE	2-4-82	8202	1	< 2			
409027785	2076	PLEASANT VIEW EST	LINCOLN	2-10-82	8202	1	< 4			
307707738	2077	MYSTIC PUBLIC WATER	IRWIN	1-11-82	8202	1	< 4			
303103088	2078	CLAYTON CO WATER AU	CLAYTON	3-3-82	8203	4	< 3			
313721577	2079	SUBURBAN MHP	TIFT	2-2-82	8203	4	7 + 3	7.5		
314813103	2080	DIXIE MHP	WARE	2-17-82	8203	1	< 4			
403833054	2081	PINE HILL ESTATE SD	COWETA	2-22-82	8203	1	< 3			
403505520	2082	HARTSFIELD COMMUNITY	COLQUITT	2-4-82	8203	1	7 + 3	5.2		
403405417	2083	BITTAKER TP	COFFEE	2-16-82	8203	1	3 + 2	3.3		
304025024	2084	RICCONNUCK KNOLL SD	CRISP	2-9-82	8203	5	< 3			
403837126	2085	RUSTICA ESTATE SD	COWETA	2-18-82	8203	1	< 3			
305705338	2086	GEORGIA KRAFT	FLOYD	1-22-82	8203	1	< 3			
301100551	2087	ALPINE VILLAGE MHP	BIBB	2-25-82	8203	1	2 + 2			
302702756	2088	SUMMERVILLE	CHATTOOGA	1-20-82	8203	1	< 3			
310609966	2089	COLUMBUS	MUSCOGEE	1-21-82	8203	1	< 3			
303403335	2090	DOUGLAS, CITY OF	COFFEE	2-15-82	8203	1	2 + 2			
310409883	2091	BOSTWICK, CITY OF	MORGAN	2-18-82	8203	1	< 3			
400700663	2092	AUBURN MHP	BARROW	2-25-82	8203	1	3 + 2	0.5		
303103130	2093	ROYAL COURT	CLAYTON	2-24-82	8203	3	37 + 4	0.3	< 1.0	
305623041	2094	MARNELL MHP	FAYETTE	2-25-82	8203	1	< 3			
303820964	2095	HICKORY HOLLOW SD	COWETA	2-22-82	8203	1	2 + 2			
310309822	2096	ALSTON, CITY OF	MONTGOMERY	2-24-82	8203	1	< 3			
305705310	2097	BURLINGTON IND	FLOYD	1-22-82	8203	1	< 3			
414823905	2098	SMITTY'S MHP	WARE	2-17-82	8203	2	8 + 4	3.6		
306306284	2099	EFWORTA BY THE SEA	GLYNN	2-23-82	8203	1	< 3			

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: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
407812736	2100	PARDUE'S MHP	JACKSON	2-16-82	8203	1	2 + 1			
403826346	2101	MONICA WOODS SD	COWETA	2-18-82	8203	1	< 2			
407827484	2102	COLONY MHP	JACKSON	2-27-82	8203	1	< 2			
303818221	2103	WEDGEWOOD ESTATES	COWETA	2-22-82	8203	1	< 2			
306907012	2104	LAKE SHORE FOREST SD	HALL	2-19-82	8203	1	< 2			
413722072	2105	YANCY TP	TIPT	2 -8-82	8203	1	< 3			
407827545	2106	KUNGSWOOD SD	JACKSON	2-23-82	8203	1	< 2			
307807771	2107	BRASELTON, CITY OF	JACKSON	2-23-82	8203	1	8 + 1	0.4		
314813112	2108	LAZY ACRES MHP	WARE	2-17-82	8203	1	2 + 2			
306906985	2109	CAMERON PT WS	HALL	2-19-82	8203	1	2 + 2			
408413354	2110	JULIE B'S TP	JONES	2-26-82	8203	1	2 + 1			
308107933	2111	AVERA, CITY OF	JEFFERSON	3 -3-82	8203	1	2 + 1			
410216868	2112	JOHNSON TP	MONROE	2-25-82	8203	1	< 2			
302602704	2113	CUSSETA, CITY OF	CHATTAHOOCHEE	3 -3-82	8203	1	< 2			
302621611	2114	CHATTAHOOCHEE CO WS	CHATTAHOOCHEE	3 -3-82	8203	1	< 2			
308422706	2115	4 C'S TP	JONES	2-24-82	8203	1	8 + 2	0.3		
410216938	2116	BOLINGREEN NURS HM	MONROE	2-26-82	8203	1	2 + 1			
308925092	2117	OGDEN TP	LIBERTY	3 -9-82	8203	4	< 3			
2118	2118	GEORGIA STATE PRISON	QUITMAN	3 -7-82	8203	4	< 4			
310309859	2119	TARRYTOWN, TOWN OF	MONTGOMERY	3-15-82	8203	4	2 + 2			
310309859	2120	TARRYTOWN, TOWN OF	MONTGOMERY	3-15-82	8203	4	< 3			
415124434	2121	BON AIR APTS	WAYNE	3 -9-82	8203	4	2 + 2			
302001550	2122	WOODBINE, CITY OF	CAMDEN	3-10-82	8203	1	< 4			
302001532	2123	KINGSLAND, CITY OF	CAMDEN	3-11-82	8203	1	< 3			
314812979	2124	WARE COUNTY WATER	WARE	3 -9-82	8203	1	3 + 2	0.9		
413721811	2125	COUNTRY HAVEN MHP	TIPT	2 -2-82	8203	3	68 + 5	72.0		
308308091	2126	WRIGHTSVILLE, CITY	JOHNSON	3 -8-82	8203	6	2 + 2			
313812213	2127	MENATT FALLS SD	TOOMES	3 -1-82	8203	1	4 + 2	3.3		
413822510	2128	M&T WATERWORKS	TOOMES	3 -9-82	8203	1	8 + 3	6.6		
312611310	2129	SOUTHAMPTON MHP	SPALDING	3-22-82	8203	4	2 + 1			
304704378	2130	ALBANY, CITY OF	DOUGHERTY	3-11-82	8203	4	2 + 1			
304704378	2131	ALBANY, CITY OF	DOUGHERTY	3-17-82	8203	4	2 + 2			
309909673	2132	MERIWETHER CO CORR	MERIWETHER	3-11-82	8203	1	4 + 1	0.7		
300700259	2133	WINDER	BARROW	1-27-82	8203	1	< 2			
311610518	2134	HARTFORD WATER AUTH	FULASKI	3-10-82	8203	1	2 + 2			
308408140	2135	BAKER'S ACRES MHP	JONES	3 -9-82	8203	1	< 2			
303603658	2136	HARLEM, CITY OF	COLUMBIA	3-16-82	8203	1	2 + 2			
308107942	2137	BARTON, CITY OF	JEFFERSON	3-10-82	8203	1	< 3			
415124328	2138	WHISPERING PINES MHP	WAYNE	3-18-82	8203	1	< 2			
305104847	2139	BLOOMINGDALE SD	EFFINGHAM	3-17-82	8203	1	< 2			
305104856	2140	GOSHER TERRACE SD	EFFINGHAM	3-19-82	8203	1	< 2			
415124267	2141	LAKE SHORE MHP	WAYNE	3-18-82	8203	1	2 + 2			
306406467	2142	CALHOUN	GORDON	1-26-82	8203	1	< 2			
408113210	2143	BROWN'S TERRACE WS	JEFFERSON	3-17-82	8203	1	< 2			
300700259	2144	WINDER	BARROW	1-27-82	8203	1	< 2			
415124416	2145	REST A WHILE NH	WAYNE	3-18-82	8203	1	< 2			
311117453	2146	PECAN HAVEN MHP	PEACH	3-17-82	8203	1	< 2			
415124300	2147	WATERS MHP	WAYNE	3-18-82	8203	1	< 3			
310818595	2148	DEERWOOD ESTATES	OCONEE	3-11-82	8203	1	6 + 2	0.4		
410617766	2149	PINE HILL SD	OCONEE	3-11-82	8203	1	< 2			

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; COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
301000475	2150	ENIGMA, CITY OF	FERRIEN	3-23-82	8203	4	3 + 3			
302502406	2151	SOUTHSIDE MOBILE EST	CHATHAM	3-22-82	8203	1	< 4			
302514438	2152	LANDINGS	CHATHAM	3-23-82	8203	1	< 4			
302502132	2153	DYCHES MOBILE EST	CHATHAM	3-22-82	8203	1	< 4			
402504144	2154	WHITFIELD MOBILE EST	CHATHAM	3-22-82	8203	1	< 4			
302522963	2155	GROVE POINT MOB EST	CHATHAM	3-22-82	8203	1	< 3			
302502123	2156	COTTONVALE MOB EST	CHATHAM	3-22-82	8203	1	< 4			
301100676	2157	SOUTH GLADE ESTATES	RIEB	3-24-82	8203	4	< 3			
301100676	2158	SOUTH GLADE ESTATES	RIEB	3-24-82	8203	4	< 3			
406937207	2159	LAKEVIEW MHP	LIBERTY	3-24-82	8203	4	< 4			
310109697	2160	BACONTON, CITY OF	MITCHELL	2-25-82	8203	1	< 4			
301601151	2161	LEEFIELD WATER ASN	BULLOCH	3-24-82	8203	1	< 3			
302502381	2162	SKIDAWAY MOB EST	CHATHAM	3-22-82	8203	1	< 4			
301601027	2163	BROOKLET, CITY OF	BULLOCH	3-24-82	8203	1	< 3			

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: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

Table 25

Fallout from Atmospheric Nuclear Tests of
Airborne Particles - State Building Samples

Sample No.	Sample date, 1982	Volume, m ³	Gross beta, pCi/m ³	Radionuclide concentration, fCi/m ³						
				Be-7	Zr-95	Nb-95	Ru-103	Cs-137	Ce-141	Ce-144
S 1882	2/25-3/22	5,418	<0.01	23	<1	<1	<1	<1	<1	<2

-
- Notes: 1. Gross beta activity was measured 6 hours after collection and includes Rn-220 daughters. Be-7 is also of natural origin. Among the shorter-lived fission products that were searched for are I-131 and Ba-140.
2. The filters are 12.5-cm-dia. charcoal-impregnated pads.

Table 26

Fallout from Atmospheric Nuclear Tests
in Rainwater

<u>Sample No.</u>	<u>Sampling date, 1982</u>	<u>Location</u>	<u>Gross beta, pCi/l</u>	<u>Cs-137 concentration, pCi/l</u>
S 1883	3/22	Health Building	8 ± 2	<10

Note: A 500-ml sample was analyzed for man-made photon-emitting radionuclides.
None were found.

Table 27

Exposure Rates at Nuclear Facilities Measured with TLDs

A NUCLEAR PLANT SEQUOYAH ... 811221-820325: 94 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0	9.3	4.1	36.1
(+-)	2.6	1.2	10.1
2.0	12.0	5.3	46.6
(+-)	2.2	1.0	8.5
3.0	10.2	4.5	39.6
(+-)	1.6	0.7	6.2
4.0	12.8	5.7	49.7
(+-)	2.3	1.0	8.9
5.0	10.7	4.7	41.5
(+-)	2.2	1.0	8.5
6.0	8.6	3.8	33.4
(+-)	1.6	0.7	6.2
7.0	10.4	4.6	40.4
(+-)	1.2	0.5	4.7
8.0	14.3	6.3	55.5
(+-)	1.4	0.6	5.4
9.0	12.0	5.3	46.6
(+-)	2.4	1.1	9.3
10.0	12.3	5.5	47.8
(+-)	1.5	0.7	5.8
11.0	11.5	5.1	44.7
(+-)	1.5	0.7	5.8
NET. AVG.:	11.3	5.0	43.8
(+-)	3.3	1.5	12.7

ATE BACKGROUND ... 811221-820325: 94 DAYS

TLD#	ME	MICRR/HR	MP/YR
14.0	18.1	8.0	70.3
(+-)	3.0	1.3	11.6
15.0	14.0	6.2	54.4
(+-)	2.7	1.2	10.5
16.0	9.6	4.3	37.3
(+-)	2.1	0.9	8.2
NET. AVG.:	13.9	6.2	54.0
(+-)	8.5	3.8	33.0

VE POWER NUCLEAR PLANT OCONEE ... 811229-820317: 78 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0	18.9	10.1	88.2
(+-)	1.7	0.9	8.2
2.0	17.6	9.4	82.2
(+-)	2.4	1.3	11.3
3.0	10.9	5.8	50.9
(+-)	1.9	1.0	8.7
4.0	8.6	4.6	40.1
(+-)	1.9	1.0	8.9
5.0	13.5	7.2	63.1
(+-)	2.1	1.1	9.9
6.0	10.4	5.6	48.6
(+-)	2.9	1.6	13.6
7.0	11.2	6.0	52.4
(+-)	2.2	1.2	10.1
8.0	13.4	7.2	62.9
(+-)	3.2	1.7	15.0
9.0	10.5	5.6	49.1
(+-)	2.2	1.2	10.2
NET. AVG.:	12.8	6.8	59.7
(+-)	6.9	3.7	32.4

ATE BACKGROUND ... 811229-820317: 78 DAYS

TLD#	MR	MICRR/HR	MR/YR
19.0 (+-)	15.3 2.1	8.2 1.1	71.5 9.9
20.0 (+-)	13.5 2.4	7.2 1.3	63.3 11.0
21.0 (+-)	9.4 1.5	5.0 0.8	43.9 7.0
NET. AVG.: (+-)	12.7 6.1	6.8 3.2	59.6 28.4

E-20-677

Georgia Institute of Technology
A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA
SCHOOL OF NUCLEAR ENGINEERING AND HEALTH PHYSICS
ATLANTA, GEORGIA 30332

ENVIRONMENTAL RADIATION LABORATORY
205 Old Civil Engineering Building

(404) 894-2375

M E M O R A N D U M

DATE: May 12, 1982

TO: Program manager
Environmental Radiation Program
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director *Bernd Kahn*
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the Environmental
Radiation Laboratory, April, 1982.

The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental monitoring at nuclear facilities by DNR staff	Table 1-18
Monitoring by DHR staff	Table 19
Monitoring by DNR staff of Community Water Systems	Table 20
Monitoring fallout	Tables 21-22
TLD radiation data at nuclear facilities obtained by DNR staff	Table 23

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity attributed to the facility:

Tables 11, 12, 14, 15 and 16: H-3 in river water, rainwater, and milk samples collected near the Savannah River Plant

All other radionuclides in Table 18 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

Surface smears taken from a radiopharmaceuticals distribution center in Atlanta showed no detectable radioactivity (see Table 19). In addition to gross beta activity measurements, the commonly found photon-emitting radionuclides Mo-99, I-131, and Se-76 were searched for but not found.

Radioactivity results from community water supplies are compiled in Table 20. These include samples WS 1600 - 2163 that were reported last month, with

some additional results added for radium and uranium. Among those previously in process, the following exceed radium levels of 5 pCi/l:

WS 2008 Birdsong MHP

WS 2150 Enigma (see also WS 1676)

Results are also reported for sample WS 2164 - 2293. The following exceeded radium levels of 5 pCi/l:

WS 2167 Brittany Harbor #2 (see also WS 1902)

Samples WS 2182, 2185, 2187, 2189, 2190, 2193, 2194, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2210, 2213, 2222, 2226, 2229, 2232, 2236, 2238, 2239, 2246, 2247, 2248, 2251, 2254, 2256, 2267-2271, 2280, 2282, 2284-2286, are still being analyzed.

No radioactivity attributable to recent fallout was detected in airborne particles and rainwater collected in Atlanta, as shown in Tables 21 and 22.

TLD measurements obtained over extended periods in the environment near Plant Hatch ranged from 24 to 44 mR/year, as shown in Table 23. All exposure rates are at background levels. Background measurements in the same area, included in Table 23, yielded values between 31 and 59 mR/year.

Table 1

Radioactivity Levels in Water Samples from
The Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross Alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
B542	TLD #1	4 ± 2	2 ± 2	<200
B543	NRC TLD #11	<2	2 ± 1	<200
B544	TLD #17	2 ± 2	2 ± 2	<200
B545	TLD #19	<3	<3	<200
B546	TLD #22	2 ± 2	2 ± 2	<200
B547	TLD #28	2 ± 2	4 ± 2	<200
B548	TLD #44	<4	3 ± 2	<200
B549	TLD #49	3 ± 2	3 ± 2	<200
B550	Altamaha River, upstream, TLD #22	5 ± 2	5 ± 2	<200
B551	Altamaha River, downstream, TLD #48	<2	3 ± 2	<200
B552	TLD #38	---	---	<200
B553	TLD #44	---	---	<200

Notes: 1. Samples B542-549 are ground water samples;
Samples B552-553 are rain water.

2. Samples were collected on April 9, 1982.

Table 2

Radioactivity Levels in Soil Samples from the
Environment of the Hatch Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg			
		Cs-137	K-40	Ra-226	Ra-228
B554	TLD #7	100	1,000	900	600
B555	TLD #8	140	200	300	300
B556	TLD #12	230	1,100	1,000	800
B557	TLD #13	270	800	1,100	1,400
B558	TLD #20	230	400	700	600
B559	TLD #22	94	3,300	1,000	1,100
B560	TLD #28	160	3,100	1,100	1,400
B561	TLD #38	240	500	500	400
B562	TLD #41	94	600	800	700
B563	TLD #44	400	<200	<200	<200

- Notes:
1. Samples were collected on April 9, 1982.
 2. No other man-made photon-emitting radionuclides were detected (Nb-95 < 40 pCi/kg).

Table 3

Radioactivity Levels in Grass Samples from the
Environment of the Hatch Nuclear Plant

Sample No.	Location	<u>Radionuclide concentration, pCi/kg</u>	
		<u>Cs-137</u>	<u>Be-7</u>
B564	TLD #7	<30	2,700
B565	TLD #8	38	3,200
B566	TLD #12	<30	820
B567	TLD #13	110	770
B568	TLD #20	<30	750
B569	TLD #22	36	570
B570	TLD #28	<30	1,100
B571	TLD #38	410	2,400
B572	TLD #41	180	560
B573	TLD #44	590	660

-
- Notes: 1. Samples were collected on April 9, 1982.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 4

Radioactivity Level in Turnip Samples from the
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137 concentration, pCi/kg</u>
B574, greens	PR-82-713	<30
B575 roots	PR-82-714	<30

-
- Notes: 1. Samples were collected on March 24, 1982.
2. No other man-made photon-emitting radionuclides were detected.

Table 5

Radioactivity Levels in Milk Samples from
the Environment of the Hatch Nuclear Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B576*	GSP	<5	2	<10	1.4	<200	<0.6
B577*	Williamson	<5	6	< 6	1.8	<200	<1.0
B578*	Johnson Bros.	<5	<2	7	1.6	<200	<0.7

Notes:

1. Samples were collected on April 12, 1982
2. No other radionuclides were detected (Ba-140 <20 pCi/l)

Table 6

Radioactivity Levels in Air Samples from the
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m³</u>	<u>Radionuclide concentration, pCi/m³</u>	
				<u>I-131</u>	<u>Gross beta</u>
B579*	Cartridge	Plant Hatch	272	<0.01	---
B580*	Paper filter	Plant Hatch	272	---	0.010
B581*	Cartridge	Dead River Rd.	272	<0.01	---
B582*	Paper filter	Dead River Rd.	272	---	0.017
B583*	Cartridge	Substation	272	<0.01	---
B584*	Paper filter	Substation	272	---	0.009

-
- Notes:
1. Samples were collected on April 27, 1982 after 7-day sampling.
 2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 7

Radioactivity Levels in American Shad Sample
from the Environment of the Hatch Nuclear Plant

<u>Sample #</u>	<u>Location</u>	<u>Cs-137 Concentration, pCi/kg</u>
B585*	Discharge area	<10

-
- Note: 1. Sample was collected by Georgia Power Co. staff on
March 17, 1982
2. No other man-made photon-emitting radionuclides were detected.

Table 8

Radioactivity Levels in Water Samples
from the Environment of the Hatch Nuclear Plant

<u>Sample Nos.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
B520 and 540	#170	<5	<2
B521 and 541	#172	<5	<2

-
- Notes: 1. A composite was prepared using equal amounts of each sample
2. These samples were collected in February and March, 1982. Samples for January, 1982 were not received. Other results for these samples are given in the Monthly reports for February and March, 1982

Table 9

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Farley Nuclear Plant

Sample No.	Sample type	Location	Volume, m^3	Radionuclide concentration, pCi/m^3	
				I-131	Gross beta
F417*	Cartridge	Great Southern Airport	1039	<0.01	---
F418*	Paper filter	Great Southern Airport	1039	---	0.012
F419*	Cartridge	Blakely Water Tower	1022	<0.01	---
F420*	Paper filter	Blakely Water Tower	1022	---	0.013

- Notes:
1. Samples were collected on April 8, 1982, after 7-day sampling.
 2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 10

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F421*	Chattahoochee R., downstream at Great Southern Paper Company	<4	4 \pm 2	<200	<3

Note: 1. Sample was collected March 4, 1982 - April 8, 1982.
2. No other photon-emitting radionuclides were detected
(Cs-137 <20pCi/l).

Table 11

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
SR570*	R-2, Savannah R.	<2	3 ± 2	<200
SR571*	R-10, Savannah R.	<2	3 ± 1	4800 ± 200
SR572*	Augusta rainwater	---	---	800 ± 200
SR573*	Hwy 301 rainwater	---	---	<200
SR574*	Perkins rainwater	---	---	1700 ± 200
SR575*	Waynesboro rainwater	---	---	4500 ± 200
SR576*	So. Richmond rainwater	---	---	500 ± 200

-
- Note: 1. Samples SR570-571 were collected on March 23, 1982.
Samples SR572-576 were collected February 25-March 12, 1982.
2. No man-made photon-emitting radionuclides were detected in samples SR570 and 571 (Cs-137 <20pCi/l).

Table 12

Radioactivity Levels in Milk Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR577*	Dixon	in process		<10	1.6	800 200	note 2
SR578*	Boyce	in process		< 6	1.6	300 200	<1
SR579*	McElmurry	in process		< 6	1.5	1100 200	note 2

-
- Notes: 1. Samples SR577 and SR579 were collected on March 25, 1982
Sample SR578 was collected on April 1, 1982.
2. Samples SR577 and SR579 were too coagulated for I-131 analyses.
3. No other radionuclides were detected (Ba-140 <20pCi/l).

Table 13

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Savannah River Plant

Sample No.	Sample type	Location	Volume, m^3	Radionuclide concentration, pCi/m^3	
				I-131	Gross beta
SR580*	Cartridge	Girard	226	<0.03	---
SR581*	Paper filter	Girard	226	---	0.014
SR582*	Cartridge	Plant Vogtle	414	<0.03	---
SR583*	Paper filter	Plant Vogtle	414	---	0.007
SR584*	Cartridge	Youth Development Center, Augusta	313	<0.03	---
SR585*	Paper filter	Youth Development Center, Augusta	313	---	0.010

- Notes: 1. Samples were collected on March 30, 1982 after 28-day sampling.
2. No other photon-emitting radionuclides were detected in the cartridges.

Table 14

Radioactivity Levels in Water Sample from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131 pCi/l</u>
SR586*	I & D Water Supply, Port Wentworth	<4	3 ± 2	2900 ± 200	<1

Note: 1. Sample was collected on April 7-13, 1982

2. No man-made photon-emitting radionuclides were detected
(Cs-137 <20pCi/l).

Table 15

Radioactivity Levels in Milk Samples from
The Environment in Georgia of the Savannah River Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR587*	Dixon	in process		<10	1.7	900 ± 200	in process
SR588*	Boyce	in process		< 6	1.4	900 ± 200	in process
SR589*	McElmurray	in process		< 6	1.5	800 ± 200	in process

Notes: 1. Samples were collected on April 22, 1982.

2. No other radionuclides were detected (Ba-140 <20pCi/l).

Table 16

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3 pCi/l</u>	<u>I-131 pCi/l</u>
SR590*	R-2 Savannah R.	<4	3 ± 2	<200	in process
SR591*	R-10 Savannah R.	<4	6 ± 2	4200 ± 200	in process
SR592*	Augusta rainwater	---	---	700 ± 200	---
SR593*	Hwy 31 rainwater	---	---	600 ± 200	---
SR594*	Waynesboro rainwater	---	---	1400 ± 200	---
SR595*	Perkins rainwater	---	---	300 ± 200	---
SR596*	So. Richmond rainwater	---	---	2000 ± 200	---
SR597*	Perkins rainwater	---	---	700 ± 200	---
SR598*	So. Richmond rainwater	---	---	2400 ± 200	---
SR599*	Waynesboro rainwater	---	---	2500 ± 200	---
SR600*	Augusta rainwater	---	---	700 ± 200	---
SR601*	Hwy 301 rainwater	---	---	600 ± 200	---

- Notes:
1. Samples SR590-591 were collected on April 20, 1982.
Samples SR592-596 were collected March 25- April 7, 1982.
Samples SR597-601 were collected April 7-22, 1982.
 2. No man-made photon-emitting radionuclides were detected in samples SR590-591 (Cs-137 <20pCi/l).

Table 17

Radioactivity Levels in Quarterly Composite
Air Filters from the Environment in Georgia
of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dates, 1982</u>	<u>Volume, m³</u>	<u>Cs-137 concentration, pCi/m³</u>
SR491,564,585	Youth Development Center, Augusta	Jan.-Mar.	1350	<1
SR493,568,581	Girard	Jan.-Mar.	1346	<1
SR495,566,583	Plant Yogtle	Jan.-Mar.	1615	<1

-
- Notes: 1. Three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports and Table 13 for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 18

Radioactivity Levels in Water Samples
from the Environment in Georgia of the
Savannah River Plant

<u>Sample No.s</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
SR454,488 and 569	I & D Water Supply	<5	<2
SR468,577 and 570	River #2	<5	<2
SR469, 558 and 571	River #10	<5	<2

-
- Notes; 1. A composite was prepared using equal amounts of each sample.
2. These samples were collected in January, February and March, 1982. Other results for these samples are given in the Monthly Reports for January, February and March, 1982.

Table 19

Radioactivity Levels in Smears from
New England Nuclear Distribution Center, Atlanta

<u>Sample No.</u>	<u>Identification</u>	<u>Gross beta pCi/100cm²</u>
S1886	Control	<0.3
S1887	Ga-67	<0.3
S1888	Xe-133	<0.3
S1889	Ti-201 container	<0.3
S1890	Packing bench	<0.3
S1891	Mo-99 generator	<0.3

-
- Notes: 1. Samples were collected by DRH personnel on April 7, 1982
2. No photon-emitting radionuclides were detected in the combined smears (Mo-99 <10pCi/100 cm²),

TABLE 20

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
0918441	1600 BOWEN MILL CRIST CCM	BEN HILL				0	< 1			
0914273	1601 STANFORD APTS.	LIBERTY				0	< 1			
0937207	1602 WATER MHP, LIBERTY CC	LIBERTY				0	< 1			
01803264	1603 SIX STAR MHP VILLAGE	BUTTS				0	3 + 1			
05308035	1604 S&S WATER, EMANUEL	EMANUEL				0	< 1			
01701273	1605 MIDVILLE, CITY OF	BURKE				0	< 1			
01000484	1606 WASHVILLE, CITY OF	BURRIEN				0	< 2			
05321682	1607 S&S WATER, DEALERS PK	EMANUEL				0	< 1			
08917336	1608 BILL STANFORD TP	LIBERTY				0	< 1			
08906659	1609 TIDELAND COMM. SCHOOL	LIBERTY				0	< 1			
01113962	1610 EASY(?) MHP	BIBB				0	2 + 1			
09027785	1611 PLEASANT VIEW	LINCOLN				0	2 + 2			
02221969	1612 MEMORY SPRINGS MHP	CARROLL				0	2 + 1			
02223354	1613 HILL CREST ACRES S/D	CARROLL				0	2 + 1			
02223259	1614 RED BARN COURT	CHEROKEE				0	< 1			
05207938	1615 HEARDMONT HEALTH CTR	ELBERT				0	< 1			
02904753	1616 PINE CREST MHP	CLARKE				0	< 1			
06117307	1617 QUARELS MHP	GILMER				0	< 1			
0722003	1618 OAK FOREST MHP	NEWTON				0	< 1			
02721030	1619 EASTANOLLEE MHP	STEPHENS				0	2 + 1			
0522763	1620 THE COVE S/D	BALDWIN				0	< 3			
03603737	1621 MARTINEZ WATER ASSO.	COLUMBIA				0	11 + 2	0.1	< 1.0	3 + 1
06921191	1622 TRAILWOOD ACRES MHP	HALL				0	< 1			
02110783	1623 AUGUSTIA YOUTH CTR.	RICHMOND				0	< 2			
01018067	1624 WATERS MHP	PAULDING				0	8 + 1	2.0	< 1.0	< 2
02621726	1625 CAREYS MHP	SPALDING				0	2 + 2			
02822745	1626 BROOKWOOD ESTATES	COOKE				0	< 2			
05813601	1627 ALLENTOWN, CITY OF	WILKINSON				0	10 + 2	0.9	2.0	< 2
02110808	1628 CASTLE PINES MHP	RICHMOND				0	< 2			
02110835	1629 GATE 5 MHP	RICHMOND				0	< 1			
02421537	1630 BUCK CREEK ACRES	SCREVEN				0	< 2			
01323065	1631 OAK VIEW	PIERCE				0	< 1			
01315294	1632 DUNWOOD S/D	FRANKLIN				0	< 2			
01623401	1633 FOREST HILLS S/D	BULLOCH				0	< 1			
0512434	1634 BON AIR APTS.	WAYNE				0	< 1			
01602364	1635 LAKESIDE ESTATES	BULLOCH				0	< 1			
03423263	1636 EVANS TP #1	COFFEE				0	< 2			
05327079	1637 BRUNSWICK/I-95 INTCG	CLYNN				0	< 1			
01619589	1638 BULLOCH CO. COR. INST	BULLOCH				0	< 1			
03823144	1639 HOG HAMMOCK	MCINTOSH				0	2 + 2			
05124452	1640 GARDENVIEW APTS.	WAYNE				0	< 1			
03922181	1641 FORT STEWART ARMY	LIBERTY				0	< 2			
02523337	1642 BELLAIRE VILLAGE S/D	CHATHAM				0	< 2			
02522954	1643 SHADY ACRES MHP	CHATHAM				0	< 2			
0623775	1644 LEES RIVERSIDE ESTATES	BULLOCH				0	< 2			
0634482	1645 NELSON LAW WATER SYS	BULLOCH				0	< 2			
05124504	1646 WAYNE SUBSTANCE ABUSE	WAYNE				0	< 2			
02522750	1647 FOSS MHP	CHATHAM				0	< 2			
0514003	1648 MORGAN MHP	CHATHAM				0	< 2			
03821430	1649 CANNON BLUFF WTR ASSO	MCINTOSH				0	< 2			

NOTES: TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER
: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAP DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
1602267	1650	JUNE BARRIER S/D	BULLOCH			0	< 2			
9215517	1651	SPORTSMAN COVE S/D	LOWNDES			0	< 2			
9215517	1652	VALDOSTA COUNTRY CLB	LOWNDES			0	2 + 1			
9215058	1653	MOODY AFB	LOWNDES			0	< 1			
9209221	1654	SUGAR CREEK TEXTILE	LOWNDES			0	< 2			
9221845	1655	BARRETT'S MHC	LOWNDES			0	2 + 1			
3523701	1656	DEMOTT S/D	COLQUITT			0	< 2			
4004078	1657	CRISP COUNTY FARM	CRISP			0	< 2			
1822049	1658	CHATTAHOOCHEE PLANT.	QUITMAN			0	< 1			
9227965	1659	GREEN OAKS MH	LOWNDES			0	< 1			
9227992	1660	MULLS MHP	LOWNDES			0	< 2			
0621599	1661	POST TRAILER PARK	MUSCOGEE			0	< 1			
4321801	1662	FLINTWOOD S/D	DECATUR			0	< 1			
3311710	1663	BIB MFG. FLT. LAUREL	TAYLOR			0	3 + 1			
3623576	1664	OAKLANE S/D	THOMAS			0	2 + 1			
4722246	1665	USMC LOGISTICS	DOUGHERTY			0	< 2			
4321165	1666	EAST OCMULGEE ACRES	TWIGGS	9-14-81		4	2 + 1			
7024437	1667	ISLAND CREEK S/D	HANCOCK	9 -8-81		4	8 + 3	1.8	1.4	2 + 1
9609450	1668	BUENA VISTA, CITY OF	MARION	9-14-81		4	2 + 1			
ID	1669	SKY VALLEY		9-14-81		4	< 1			
7024437	1670	ISLAND CREEK S/D	HANCOCK	9 -8-81		4	16 + 4	5.9	1.3	
4321165	1671	EAST OCMULGEE ACRES	TWIGGS	9-14-81		4	2 + 1			
2517084	1672	SANGRENA WOODS WATER	CHATHAM	9 -9-81		4	< 2			
ID	1673	KENDALL CREEK		9-17-81		4	< 1			
4304158	1674	ATTAPULGUS, CITY OF	DECATUR	8 -5-81		3	18 + 6	12.8	< 1.0	
3721811	1675	COUNTRY HAVEN MHP	TIFT	8-11-81		3	74 + 9	74.3	< 1.0	< 2
1000475	1676	ENIGMA, CITY OF	BERRIEN	8-13-81		3	8 + 5	6.8	< 1.0	< 2
3717743	1677	PINE HILL MOBILE HOME	TIFT	8-11-81		3	23 + 5	26.5	1.3	< 2
9409298	1678	MARSHALLVILLE, CITY O	MACON	8-25-81		3	11 + 2	5.1	4.5	< 2
9609450	1679	BUENA VISTA, CITY OF	MARION	8 -5-81		3	4 + 2	2.4		
1000466	1680	ALAPOHA, CITY OF	BERRIEN	7-22-81		3	7 + 3	7.7	< 1.0	
1614335	1681	THE BARN MHP	BULLOCH	8-26-81		1	< 2			
2101627	1682	FULASKI, CITY OF	CANDLER	8-27-81		1	< 2			
3714634	1683	ROCKDALE S/D	LAURENS	8-26-81		1	< 2			
5203155	1684	ST. REGIS PAPER-FARGO	CLINCH	9-10-81		1	2 + 2			
2411088	1685	NEWINGTON, CITY OF	SCREVEN	8-25-81		1	< 2			
190667	1686	BRECKENRIDGE SOUTH	BIBB	9 -3-81		1	< 1			
1602498	1687	RIDGEVIEW APTS.	BULLOCH	8-26-81		1	< 2			
3124504	1688	WAYNE SUBSTANCE ABUSE	WAYNE	8-14-81		1	< 2			
0100026	1689	SURRENCY, CITY OF	APPLING	9 -8-81		1	< 2			
602355	1690	MILLCREEK MOBILE ESTS	BULLOCH	8-26-81		1	< 2			
3511848	1691	DAWSON, CITY OF	TERRELL	9-16-81		4	< 2			
504259	1692	CHESTER, CITY OF	DODGE	9 -2-81		1	< 2			
3819310	1693	JOHN ALFORD S/D	MCINTOSH	9-10-81		1	< 2			
921708	1694	DIXIE APTS & TP	LIBERTY	8-19-81		1	< 2			
502178	1695	GARDEN ACRES SD	CHATHAM	9-15-81		1	< 2			
813610	1696	CORDEN, CITY OF	WILKINSON	9 -8-81		1	4 + 2	1.3		
502275	1697	OGEECHEE FARMS SD	CHATHAM	8-11-81		1	< 2			
308073	1698	KITE, CITY OF	JOHNSON	9 -3-81		1	< 2			
001541	1699	ST. MARYS, CITY OF	CANDLER	8-14-81		1	< 4			

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: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
01602504	1700 FRINK'S MHP	BULLOCH		8-27-81		1	< 2			
04306878	1701 SANDY ACRES MHP	DECATUR		8 -5-81		1	< 1			
00100071	1702 GA BAPT CHILDRENS H	APPLING		9 -8-81		1	< 2			
09821078	1703 BRIAR PATCH COMM	MCINTOSH		9-10-81		1	< 3			
03503420	1704 DOERUN, CITY OF	COLQUITT		8 -3-81		1	2 + 2			
09821430	1705 CANNON BLUFF	MCINTOSH		9-10-81		1	< 2			
01201655	1706 VISTA PINES APT	BLECKLEY		9-11-81		1	< 2			
03503466	1707 NORMAN PARK, CITY OF	COLQUITT		8-18-81		1	< 2			
01113920	1708 HAWAIIAN VILLAGE MHP	BIBB		9 -2-81		1	< 2			
01201673	1709 SANDHILL SD	BLECKLEY		9-11-81		1	< 2			
00000000	1710 JOE BROWN SPRING			9-25-81		4	< 1			
01601063	1711 STATESBORO, CITY OF	BULLOCH		9-23-81		4	< 2			
8914352	1712 CHEROKEE ROSE CC	LIBERTY		8-27-81		1	< 2			
09821087	1713 JONES COMMUNITY	MCINTOSH		9-10-81		1	< 3			
5114748	1714 SPRING GROVE ACRES	WAYNE		8-14-81		1	< 3			
0309877	1715 MONTGOMERY CO CORREC	MONTGOMERY		9-15-81		1	2 + 2			
0300300	1716 LEE MHP	PACON		9-17-81		1	< 2			
01500957	1717 BRYAN ACRES	BRYAN		9-16-81		1	< 2			
01500966	1718 BRYAN WOODS SD	BRYAN		9-16-81		1	< 2			
01601054	1719 REGISTER	BULLOCH		9-16-81		1	< 2			
01501011	1720 STRATHY HALL	BRYAN		9-24-81		1	< 2			
0300294	1721 HIGHLAND PARK SD	PACON		9-21-81		1	< 2			
01501002	1722 LINCOLN RIVER EST	BRYAN		9-16-81		1	< 2			
01500948	1723 BLACK CREEK FARMS SD	BRYAN		9-16-81		1	< 2			
01500954	1724 CAPE HARDWICK	BRYAN		9-16-81		1	2 + 2			
01602249	1725 FRANKVILLE WATER ASSN	BULLOCH		9-17-81		1	2 + 2			
02502318	1726 PINE BARREN ACRES	CHATHAM		8-11-81		1	< 2			
01601036	1727 NEVILLS WATER ASSN	BULLOCH		9-17-81		1	< 2			
07913064	1728 JASPER CO CORREC INS	JASPER		9-16-81		1	< 2			
0308091	1729 WRIGHTSVILLE, CITY OF	JOHNSON		9-16-81		1	< 3			
02411097	1730 OLIVER, CITY OF	SCREVEN		8-25-81		1	< 2			
00117114	1731 VILLAGE HOME PARK	APPLING		8-26-81		1	3 + 2	2.0		
02502363	1732 RIVER'S END SD	CHATHAM		9-14-81		1	< 2			
02515732	1733 NASSAU WOODS	CHATHAM		9-15-81		1	< 2			
03503545	1734 BLUEVIEW SD	COLQUITT		8 -3-81		1	< 3			
02502080	1735 SOUTHERN FOUNT'N MHP	CHATHAM		8-11-81		1	< 2			
03914477	1736 MIDWAY NURSING INN	LIBERTY		8-27-81		1	< 2			
02515778	1737 COMMODEORE POINT	CHATHAM		8-25-81		1	< 2			
01634482	1738 NELSON LAW SD	BULLOCH		9-17-81		1	< 2			
01333831	1739 COUNTRY MANOR MHP	LONG		8-27-81		1	< 2			
0413372	1740 HODGE TP	JONES		9 -2-81		1	5 + 3	1.9		
0414834	1741 COOSA WATER AUTH	UNION		9 -2-81		1	< 1			
0805575	1742 LANIER FOREST SD	FORSYTH		9-16-81		1	2 + 1			
0301782	1743 CATOOSA CO WATER SYS	CATOOSA		9-24-81		1	< 2			
0204124	1744 DAWSONVILLE, CITY OF	DAWSON		9-10-81		1	< 1			
0222980	1745 ROLLING VIEW HOME AS	CARROLL		9-10-81		1	< 1			
0412591	1746 NOTLA WATER AUTH	UNION		9 -2-81		1	< 1			
0412564	1747 BLAIRSVILLE, CITY OF	UNION		9 -2-81		1	1 + 1			
0507488	1748 LAKEVIEW MHP	HENRY		9 -9-81		1	< 1			
0809130	1749 WESLEY OAKS MHP	FORSYTH		9-16-81		1	3 + 1			

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#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	IAE DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
5816063	1750	LANIER WOODS SD	FORSYTH	9-16-81		1	< 1			
0810157	1751	NORTHWEST WOODS WATER	OCONEE	9 -9-81		1	< 1			
6706732	1752	NORCROSS MH CITY	GWINNETT	9-22-81		1	< 2			
7507406	1753	HAMPTON, CITY OF	HENRY	9-17-81		1	< 2			
6706714	1754	SUWANEE, CITY OF	GWINNETT	9-22-81		1	2 + 2			
5916501	1755	BRITANY HARBOR WEST	FRANKLIN	9-25-81		3	4 + 1	1.1		
7807814	1756	NICHOLSON, CITY OF	JACKSON	9-22-81		3	3 + 2	0.3		
8708293	1757	RENTZ, TOWN OF	LAURENS	10 -5-81		4	2 + 1			
4612850	1758	WALKER CO CORRECT IN	WALKER	9-28-81		4	< 2			
4604317	1759	LILLY, CITY OF	DOOLY	9-21-81		4	< 2			
1803219	1760	COUNTRY MHP	BUTTS	9-29-81		4	< 2			
5124513	1761	ROSE MOBILE	WAYNE	9-29-81		1	< 2			
8708293	1762	RENTZ, CITY OF	LAURENS	9-22-81		1	< 2			
1723675	1763	DELAIGLE MHP	PURKE	9-23-81		1	< 2			
1101560	1764	MAON HEALTH CARE C	ETHEL	9-30-81		1	< 1			
4518199	1765	EASTMAN MHP #2	DODGE	10 -1-81		1	< 2			
4504268	1766	EASTMAN, CITY OF	DODGE	10 -1-81		1	< 2			
9737297	1767	GREEN ACRES MHP	MCDUFFIE	9-24-81		1	< 1			
7007128	1768	HANCOCK CO WS EYE	HANCOCK	9-29-81		1	< 1			
8918852	1769	WALTHOURVILLE, CITY	LIBERTY	9-22-81		1	< 2			
3503572	1770	SHEMCOTON SD #1	COLQUITT	9 -1-81		1	< 3			
3516048	1771	TALLAKAS CIRCLE SD	COLQUITT	9 -1-81		1	< 3			
3621118	1772	CRESTWOOD MH	THOMAS	9 -9-81		1	< 3			
3712085	1773	FEERYLAKE MHP	TIFT	8-24-81		1	< 2			
4304176	1774	BRINSON, TOWN OF	DECATUR	9-10-81		4	< 1			
0000000	1775	WELLS TP		10 -5-81		4	< 2			
7507503	1776	SWAN LAKE ESTATES	HENRY	10 -2-81		4	7 + 2	0.5		
0000000	1777	MADISON, CITY OF		10-15-81		4	< 1			
3624205	1778	SUGARWOOD ESTATES	THOMAS	9-29-81		4	< 2			
3937207	1779	LAKEVIEW TP	LIBERTY	10 -5-81		4	< 2			
9014583	1780	BLACKJACK WATER ASS	LINCOLN	10-19-81		4	2 + 1			
3600991	1781	PINE LAKE EST	THOMAS	10-15-81		4	4 + 2	1.1		
0000000	1782	BLAIRSVILLE, CITY OF		10-28-81		4	3 + 1			
3708293	1783	RENTZ, CITY OF	LAURENS	10-21-81		4	< 2			
1604344	1784	VIRNA, CITY OF	DOOLY	9 -1-81		1	< 2			
0517233	1785	FORT MEN ESTATES	MURRAY	10-23-81		1	1 + 1			
0618138	1786	LITTLE ACRES	THOMAS	9-17-81		1	2 + 2			
5107630	1787	LAKE CHERIE MHP	EFFINGHAM	10-13-81		1	< 2			
2611268	1788	CARIN CREEK ESTATES	SPALDING	10-28-81		1	< 2			
2814031	1789	FOUNTAIN IN LAKE MHP	CHEFROKEE	10-19-81		1	< 2			
0011612	1790	GENEVA, CITY OF	TALBOT	9-28-81		1	< 1			
3621638	1791	CRESTWOOD MHP #1	THOMAS	9 -9-81		1	< 3			
502150	1792	ESPILLHAMMOCK EST	CHATHAM	10 -6-81		1	< 3			
5916036	1793	MARLETTE HEIGHTS	HALL	10 -2-81		1	< 2			
502284	1794	PAIM'S MHP	CHATHAM	10 -7-81		1	< 3			
514395	1795	MELODY ACRES MHP	CHATHAM	10 -6-81		1	< 3			
210361	1796	PICKENS CO WATER	PICKENS	9-29-81		1	< 1			
320460	1797	WOODLAND MHP	GLYNN	10-20-81		1	< 2			
503581	1798	SHEMCOTON SD #2	COLQUITT	9 -1-81		1	< 3			
304176	1799	BRINSON, TOWN OF	DECATUR	9-10-81		1	< 2			

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#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
6510462	1800	SOUTHERN TERRACE MHP	GRADY	9-24-81		1	< 3			
3503554	1801	INDIAN LAKES SD	COLQUITT	9-14-81		1	< 2			
1524276	1802	DANIEL PINES	BRYAN	10 -5-81		1	< 3			
6510471	1803	PINE TERRACE MHP	GRADY	9-24-81		1	2 + 2			
2611301	1804	POMONA MHP	SPALDING	10-28-81		1	< 2			
2541734	1805	ROGER'S MH COURT	CHATHAM	10 -7-81		1	< 3			
2816639	1806	LAND-O-LAKES MHP	CHEROKEE	10-19-81		1	8 + 2	0.6	< 1.0	
3834695	1807	SHOAL CREEK	COWETA	9-21-81		1	< 2			
4004032	1808	ARABI, CITY OF	CRISP	9-15-81		1	< 2			
0417227	1809	MORGAN CO WORK CAMP	MORGAN	10 -1-81		1	< 1			
2522954	1810	SHADY ACRES MHP	CHATHAM	10 -6-81		1	2 + 2			
3523901	1811	DEMOTT SD	COLQUITT	9-14-81		1	2 + 2			
3611979	1812	PINE LAKE ESTATES	THOMAS	9-17-81		1	< 2			
1601197	1813	JOHNSON'S MHP	BULLOCH	10-20-81		1	< 2			
4322654	1814	DONNAN ACRES SD	TWIGGS	10 -7-81		1	1 + 1			
2502433	1815	TALAHU ISLAND COMM	CHATHAM	10 -6-81		1	< 2			
2502442	1816	TALAHU LAKE ESTATES	CHATHAM	10 -6-81		1	< 2			
0216938	1817	ECLINGREEN-MACON NH	MONROE	10-27-81		4	1 + 1			
2924912	1818	NORWOOD VILLAGE MH	CLARKE	10-15-81		4	< 2			
0000000	1819	DEMOREST, TOWN OF		12 -1-81		4	3 + 1			
7835070	1820	STEWART'S MHP	JACKSON	10-22-81		4	< 1			
0009681	1821	COLQUITT, CITY OF	MILLER	9-22-81		1	< 1			
1300795	1822	NAHUNTA, CITY OF	BRANTLEY	10-27-81		1	< 2			
3414882	1823	RIVER NORTH SD	JONES	10-29-81		1	5 + 3	0.2		
1300801	1824	SATILLA RIVER ESTS	BRANTLEY	10-28-81		1	< 2			
7907909	1825	TURTLE COVE SD	JASPER	10-27-81		1	5 + 2	1.6		
3024136	1826	WALDEN WOODS SD	WASHINGTON	10-28-81		1	< 2			
4704378	1827	ALBANY, CITY OF	DOUGHERTY	9-28-81		1	< 2			
4504277	1828	RHINE, CITY OF	DODGE	10-20-81		1	< 2			
1901505	1829	EDISON, CITY OF	CALHOUN	10-20-81		1	< 2			
4714182	1830	CABANA VILLAGE MHP	DOUGHERTY	10-15-81		1	< 2			
3324478	1831	SYCAMORE MOBILE VIL	EMANUEL	10-29-81		3	< 2			
3809506	1832	DARIEN, CITY OF	MCINTOSH	10-28-81		1	< 3			
7217583	1833	PINE MTN CLUB CHALET	HARRIS	9-28-81		1	< 2			
3819693	1834	YOUNG'S ISLAND	MCINTOSH	10-28-81		1	< 2			
3806793	1835	DEMOREST, CITY OF	HABERSHAM	10-30-81		4	2 + 1			
3506491	1836	CAIRO, CITY OF	GRADY	10-26-81		1	3 + 2	2.3		
3505575	1837	RIVERWOOD SD	COLQUITT	10-27-81		1	2 + 2			
3503563	1838	SHADY GROVE S/D	COLQUITT	10-27-81		1	2 + 2			
901523	1839	MORGAN, CITY OF	CALHOUN	10-22-81		1	< 3			
3812222	1840	PETROSS COMMUNITY SD	TOOMES	11 -4-81		1	5 + 2	6.4	< 1.0	
3511191	1841	DONALSONVILLE, CITY O	SEMINOLE	10-27-81		1	< 2			
304167	1842	BAINBRIDGE, CITY OF	DECATUR	10-22-81		1	< 3			
409298	1843	MARSHALLVILLE, CITY O	MACON	11 -3-81		1	10 + 2	4.7	2.5	< 2
1023329	1844	MEADOW PARK S/D	CRISP	10-26-81		1	< 3			
911515	1845	LESLIE, CITY OF	SUMTER	11 -4-81		1	< 3			
901514	1846	LEARY, CITY OF	CALHOUN	10-23-81		1	< 3			
826874	1847	SUNDOWN S/D	FORSYTH	10-29-81		4	2 + 2			
517233	1848	FORT MT. ESTATES	MURRAY	10-28-81		4	< 1			
515778	1849	COMMODORE POINT	CHATHAM	11 -5-81		1	< 3			

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TABLE 20

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
4012283	1850	SOBERTON, CITY OF	TREUTLEN	11-4-81		1	2 + 2			
3812189	1851	SANTA CLAUD, CITY OF	TOOMBS	11-4-81		1	< 3			
7007100	1852	DEVEREUX WATER WORKS	HANCOCK	11-9-81		1	3 + 1			
8920884	1853	FLOYDS MHP	LIBERTY	11-5-81		1	< 3			
5613546	1854	PITTS, CITY OF	WILCOX	11-3-81		1	< 4			
5613564	1855	SEVILLE, CITY OF	WILCOX	11-3-81		1	< 3			
3603737	1856	MARTINEZ WATER CO.	COLUMBIA	11-6-81		1	5 + 2	< 0.1		
8933436	1857	SALTER MHP	LIBERTY	11-0-81		1	< 3			
0216947	1858	HILLTOP NURSING HOME	MONROE	11-3-81		1	< 3			
5304948	1859	ADRIAN, CITY OF	EMANUEL	11-3-81		1	< 3			
1615629	1860	ARNOLDS MHP	PULASKI	11-5-81		1	< 3			
5122016	1861	FOXBOW FARMS S/D	EFFINGHAM	11-4-81		1	< 3			
1501966	1862	CONLEY MHP	BRYAN	11-4-81		1	< 3			
2524075	1863	SAVANNAH, WELL #26	CHATHAM	11-5-81		5	< 3			
ID	1864	NICKOLES MINISTRIES		11-12-81		1	< 3			
2110808	1865	CASTLE PINES MHP	RICHMOND	11-10-81		0	< 2			
5113338	1866	WAYNE CORRECT. INST	WAYNE	11-12-81		1	< 3			
2715054	1867	TOCCOA FALLS COLLEGE	STEPHENS	10-27-81		1	2 + 2			
2715054	1868	TOCCOA FALLS COLLEGE	STEPHENS	10-27-81		1	3 + 1			
7807814	1869	NICHOLSON, CITY OF	JACKSON	11-16-81		3	2 + 1			
1210370	1870	BENT TREE COUNTRY C	PICKENS	11-17-81		0	< 2			
5416727	1871	PEACEFUL VALLEY	WHITE	11-4-81		2	3 + 1			
3823992	1872	GLENDALE SD	LEE	11-16-81		4	< 2			
9319917	1873	CRISSON'S WATER SYS	LUMPKIN	11-19-81		4	4 + 2	3.1		
3721811	1874	COUNTRY HAVEN MHP	TIFT	12-1-81		3	81 + 9	74.0	< 1.0	< 2
3826874	1875	SUNDOWN SD	FORSYTH	10-29-81		1	< 4			
3416000	1876	OAKS NURSING HOME	MACON	11-16-81		1	4 + 2	1.0		
3423263	1877	EVANS #1	COFFEE	11-18-81		1	< 4			
3306266	1878	DRIFTWOOD MHP	GLYNN	11-18-81		1	< 4			
5013216	1879	SANDERSVILLE, CITY	WASHINGTON	11-13-81		1	< 3			
3405426	1880	EVANS #2	COFFEE	11-18-81		1	< 3			
1913146	1881	CAMAK	WARREN	11-18-81		6	103 + 8	1.4	< 1.0	75 + 10
3027560	1882	EDGEWOOD MHP	JEFF DAVIS	11-19-81		1	4 + 2	3.4	< 1.0	
0309859	1883	TARRYTOWN, TOWN OF	MONTGOMERY	11-24-81		4	31 + 6	23.8	< 1.0	< 2
5916501	1884	BRITTANY HARBOR WEST	FRANKLIN	11-23-81		4	7 + 2	1.6		
7307341	1885	TUGALCO EY ESTATES	HART	11-23-81		3	17 + 4	9.1	< 1.0	6 + 1
3306345	1886	SHADY ACRES MHP	GLYNN	11-18-81		1	< 3			
3403405	1887	HILLSIDE TP	COFFEE	11-18-81		1	7 + 3	5.3	< 1.0	
3522176	1888	HUNTER ARMY AIRFIELD	CHATHAM	11-17-81		1	< 3			
1210389	1889	BIG CANOE SD	PICKENS	11-20-81		1	< 2			
3306424	1890	SEA ISLAND	GLYNN	11-18-81		1	< 4			
3523436	1891	UPSON CO PRISON CAMP	UPSON	11-24-81		1	2 + 2			
509392	1892	COMER, CITY OF	MADISON	11-18-81		1	< 2			
3522112	1893	MATTHEWS MHP	CHATHAM	11-16-81		1	< 3			
3414072	1894	PARKVIEW TP	COFFEE	11-16-81		4	< 3			
3909576	1895	GREENVILLE, CITY OF	MERIWETHER	11-30-81		4	4 + 2	0.2		
813610	1896	GORDON, CITY OF	WILKINSON	11-24-81		3	10 + 2	1.8	8.3	< 2
619833	1897	MEADOW HAVEN TP	HOUSTON	11-24-81		1	19 + 3	11.7	2.7	
800326	1898	WHITE, CITY OF	BARTOW	11-30-81		4	< 2			
103130	1899	ROYAL COURT MHP	CLAYTON	11-19-81		3	40 + 5	7.0	< 1.0	

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3117326	1900	DOUBLE E MHP	CLAYTON	11-19-81		1	15 + 3	0.4	1.0	
5916501	1901	BRITTANY HARBOR WEST	FRANKLIN	11-23-81		3	6 + 2	1.9		
5916422	1902	BRITTANY HARBOR #2	FRANKLIN	11-23-81		3	42 + 6	11.0	1.4	
1710551	1903	FOREST LAKE VILL SD	PUTNAM	11-18-81		1	< 3			
3216083	1904	DUFONT	CLINCH	11-24-81		1	< 3			
5713570	1905	RAYLE WATER ASSN	WILKES	11-24-81		1	< 3			
2915846	1906	SEMINOLE MHP	CLARKE	12 -1-81		3	47 + 5	9.2	< 1.0	
4812960	1907	MANOR WATER ASSN	WARE	11-23-81		1	< 4			
5304957	1908	GARFIELD, CITY OF	EMANUEL	11-24-81		1	< 3			
3203146	1909	HOMERVILLE	CLINCH	11-24-81		1	< 4			
1734345	1910	DOGWOOD MHP	PUTNAM	11-20-81		1	3 + 3	0.2		
1500957	1911	STRATHY HALL SD	BRYAN	11-27-81		4	< 3			
5321673	1912	LAKE LUCK	EMANUEL	12 -1-81		1	2 + 2			
5308035	1913	RANCH PARK	EMANUEL	12 -1-81		1	< 3			
3411744	1914	LUMBER CITY	TELFAIR	12 -2-81		1	3 + 1			
1100658	1915	SHELTERING PINES MHP	BIBB	12 -4-81		1	2 + 1			
8922181	1916	FORT STEWART	LIBERTY	11-30-81		1	< 2			
5321683	1917	DEALVA PARK	EMANUEL	12 -1-81		1	< 3			
2311063	1918	ELLIENVILLE, CITY OF	SCHLEY	12-10-81		4	3 + 1			
9609450	1919	BUENA VISTA, CITY OF	MARION	12-11-81		4	5 + 1	2.8		
7024437	1920	ISLAND CREEK	HANCOCK	12-16-81		4	< 2			
0000000	1921	SCENIC SHORES WELL#2		12-16-81		4	11 + 4	0.6	< 1.0	
1722990	1922	TALL TIMBERS WELL#5	PUTNAM	12-16-81		4	2 + 2			
1623553	1923	COUNTRY LAKES SD	BULLOCH	12 -9-81		4	< 2			
1722990	1924	TALL TIMBERS WELL#1	PUTNAM	12-16-81		4	82 + 6	1.2	3.1	41 + 5
0000000	1925	SCENIC SHORES WELL#3		12-16-81		4	6 + 2	0.5		
3409298	1926	MARSHALLVILLE, CITY	MACON	12-14-81		4	10 + 2	4.7	3.3	
1114279	1927	BALCON'S MHP	BIBB	12-11-81		4	< 2			
0000000	1928	SCENIC SHORES WELL#1		12-16-81		4	< 2			
2904762	1929	REYNOLDS MHP	CLARKE	12 -9-81		4	2 + 2			
3413345	1930	BECK'S MHP	JONES	12 -4-81		1	< 3			
2938196	1931	FAIRFAX HALL	CLARKE	12 -9-81		1	< 2			
0218618	1932	DAVIS MHP	MONROE	12 -9-81		1	20 + 4			
1601045	1933	PORTAL CITY	BULLOCH	12-10-81		1	< 3			
623368	1934	COUNTRY CLUB HILLS	BULLOCH	12 -9-81		1	< 2			
1631164	1935	ZETTEROWER TP	BULLOCH	12 -9-81		1	< 3			
602771	1936	YOUNGLOOD MHP	BULLOCH	12-10-81		1	< 3			
3411771	1937	SCOTLAND WATER SYS	TELFAIR	12 -8-81		1	3 + 2	2.8		
601179	1938	FORREST HEIGHTS SD	BULLOCH	12-10-81		1	< 3			
602276	1939	COACH HOUSE EST SD	BULLOCH	12 -9-81		1	< 3			
813601	1940	ALIENTOWN, CITY OF	WILKINSON	11-17-81		4	< 2			
7807814	1941	NICHOLSON, CITY OF	JACKSON	12-16-81		4	2 + 1			
411762	1942	MILAN, CITY OF	TELFAIR	12-22-81		1	5 + 2	2.2		
313378	1943	GLENWOOD, CITY OF	WHEELER	12-15-81		1	3 + 2	2.1		
107685	1944	RED GATE MHP	EFFINGHAM	12-15-81		1	< 2			
411762	1945	MILAN, CITY WELL#2	TELFAIR	12-22-81		1	2 + 2			
411762	1946	MILAN, CITY WELL#3	TELFAIR	12-22-81		1	5 + 2	0.4		
010713	1947	PATTERSON HOSPITAL	RANDOLPH	11-18-81		1	< 3			
244434	1948	BON AIR APTS	WEBSTER	1 -4-82		1	< 2			
713589	1949	TIGNALL, CITY OF	WILKES	12-14-81		1	11 + 3	0.4	< 1.0	

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5104769	1950	GUYTON, CITY OF	EFFINGHAM	12-15-81		1	< 2			
03403399	1951	OAK PARK SD	COFFEE	1 -4-82		1	4 + 2	0.8		
0000000	1952	RICCONNUCK KNOLL SD		11-24-81		4	< 2			
2511207	1953	IRON CITY	SHMINOIE	11-12-81		1	< 2			
08408104	1954	GRAY, CITY OF	JONES	12-14-81		4	< 3			
4813121	1955	BAPTIST VILLAGE	WARE	12-15-81		1	3 + 2	2.4		
4704420	1956	BYRON LAKE ESTATES	DOUGHERTY	11 -9-81		1	< 3			
0000000	1957	RICHMOND CO WELL #4		1 -7-82		4	< 2			
0000000	1958	RICHMOND CO WELL #3		1 -6-82		4	< 2			
01500902	1959	RICHMOND HILL, CITY	BRYAN	1-14-82		1	< 3			
01300777	1960	HOCKEN, CITY OF	BRANTLEY	1 -7-82		1	< 4			
09008774	1961	LINCOLNTON WATER SYS	LINCOLN	12-29-81		1	< 3			
07114578	1962	HARALSON CO WATER AU	HARLSON	12-23-81		1	2 + 2			
03211634	1963	COBBTOWN, CITY OF	TAITMAIL	1 -6-82		1	< 3			
03411753	1964	MCRAE, CITY OF	TELFAR	1 -8-82		1	4 + 3	3.1	< 1.0	
01310395	1965	BLACKSHEAR, CITY OF	PIERCE	1-19-82		1	< 4			
05304966	1966	OAK PARK, CITY OF	EMANUEL	1 -6-82		1	6 + 3	4.2	< 1.0	
00328374	1967	WILWOOD MHP	MONTGOMERY	1 -6-82		2	9 + 3	5.5	< 1.0	
04712884	1968	SOCIAL CIRCLE	WALTON	12-30-81		1	< 3			
05101768	1969	GUYTON, CITY OF	EFFINGHAM	1-13-81		1	< 3			
02110835	1970	GATE 5 MHP	RICHMOND	1 -6-82		1	< 2			
01113902	1971	EASY LIVING TP	BIBB	1 -5-82		1	2 + 2			
01316826	1972	WHISHERING PINES SD	BRANTLEY	1-14-82		1	2 + 2			
02517084	1973	SANGRENA WOODS SD	CHATHAM	1-12-82		1	< 3			
07807805	1974	JEFFERSON	JACKSON	12-17-81		1	< 2			
06006016	1975	RCSWELL	FULTON	12-18-81		1	< 2			
05705277	1976	FLOYD CO WATER SYS	FLOYD	12-22-81		1	< 3			
05324478	1977	SYCAMORE MOBILE VIL	EMANUEL	1-12-82		1	< 3			
04712875	1978	MONROE WATER SYSTEM	WALTON	12-30-81		1	< 2			
04812988	1979	WAYCROSS, CITY OF	WARE	1 -7-82		1	< 4			
01210343	1980	JASPER	PICKENS	12-16-81		1	< 2			
03211661	1981	MANASSAS, CITY OF	TAITMAIL	1 -2-82		1	< 4			
03232100	1982	BEARD'S CREEK MHP	TAITMAIL	1 -6-82		1	< 3			
03111628	1983	CRAWFORDVILLE, CITY	TALIAFERRO	1 -6-82		1	< 4			
03502071	1984	BLOOMINGDALE, CITY OF	CHATHAM	1-12-82		1	< 3			
02522945	1985	LIVE OAK MHP	CHATHAM	1-12-82		1	< 3			
03107588	1986	GLEN-LEE MHP	EFFINGHAM	1-13-82		1	< 3			
05705277	1987	FLOYD CO WATER SYS	FLOYD	12-22-81		1	< 3			
0309859	1988	TARRYTOWN, CITY OF	MONTGOMERY	1 -6-82		1	35 + 4	44.0	< 1.0	
06335538	1989	NUNEZ, CITY OF	EMANUEL	1 -6-82		1	< 4			
0304975	1990	STILLMORE, CITY OF	EMANUEL	1-14-82		1	< 4			
0722990	1991	TALL TIMBERS WELL #1	PUTNAM	1-25-82		4	11 + 3	0.7		5 + 1
0236534	1992	NORTHWOOD HILLS SD	ELBERT	1-19-82		4	2 + 2			
03706644	1993	GRAYSON, CITY OF	GWINNETT	1 -5-82		4	21 + 2	1.0	1.2	
0227983	1994	KERSEY MHP	LOWNES	1-25-82		4	< 4			
0000000	1995	ILA, TOWN OF		1-26-82		4	2 + 1			
0907058	1996	SHADY GROVE TP	HALL	1-27-82		4	< 3			
0614735	1997	LONG'S MHP	PAYETTE	12-29-81		1	< 2			
0501917	1998	GARDEN CITY, CITY OF	CHATHAM	1-21-82		1	< 3			
0411735	1999	JACKSONVILLE, CITY OF	TELFAR	1-18-82		1	< 4			

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#	SAMPLE WS #	LOCATION	COUNTY	COLLECT	LAB	TYPE	GROSS	RA-	RA-	URANIUM
				DATE	DATE		ALPHA PCI/L	226 PCI/L	228 PCI/L	
2515787	2000 DERENNE APTS	CHATHAM		1-21-82		1	< 4			
1602461	2001 WESTCHESTER SD	BULLOCH		1-19-82		1	< 4			
7619833	2002 MEADOW HAVEN TP	HOUSTON		1-20-82		2	22 + 2	14.9	4.0	
1601188	2003 GROVE LAKES SD	BULLOCH		1-19-82		1	< 4			
5605191	2004 FAYETTE MHP	FAYETTE		1 -1-82		1	< 3			
7614722	2005 BAKER'S MH RANCH	HOUSTON		1-19-82		1	< 3			
1601081	2006 GA SOUTHERN COLLEGE	BULLOCH		1-19-82		1	< 4			
1803273	2007 JACKSON LAKE MHP	BUTTS		12-17-82		1	< 3			
7612440	2008 BIRDSONG MHP	HOUSTON		1-20-82		1	6 + 1	4.0	1.9	
0710071	2009 ABIDE-A-WHILE MHP	NEWTON		1-21-82		1	< 3			
0717468	2010 TRUEL'S MHP	NEWTON		1-21-82		1	< 3			
5805520	2011 HOMESTEADERS MHP	FORSYTH		12-21-81		1	8 + 2	0.8	< 1.0	
2501962	2012 TYBEE ISLAND, CITY OF	CHATHAM		1-20-82		1	< 4			
1521812	2013 HAZELWOOD SD	BRYAN		1-19-82		1	< 3			
6806793	2014 DEMOREST, CITY OF	HABERSHAM		1-12-82		1	2 + 2			
4712866	2015 JERSEY, CITY OF	WALTON		12-22-81		3	< 3			
2617053	2016 PINECREST SD	SPALDING		1-20-82		1	16 + 3	1.6	< 1.0	
6906903	2017 FLOWERY BRANCH, CITY	HALL		1 -7-82		1	< 3			
3834695	2018 SHOAL CREEK	COWETA		1-20-82		3	< 2			
0728488	2019 PRICE SD	NEWTON		1-21-82		1	< 3			
7519988	2020 POOLES MHP	HENRY		1-21-82		1	< 2			
5705268	2021 CAVE SPRING, CITY OF	FLOYD		1 -1-82		1	< 3			
1801456	2022 PINEVIEW SD	BUTTS		12-17-81		1	< 2			
5805672	2023 SHARON SPRINGS SD	FORSYTH		12-21-82		1	< 3			
5236534	2024 NORTHWOOD HILLS	EIBERT		1-27-82		4	2 + 2			
3924947	2025 GUY H WELLS TP	LIBERTY		1-25-82		4	< 3			
2921195	2026 KOINONIA VILLAGE	SUMTER		2 -2-82		4	< 4			
2921195	2027 KOINONIA-FOREST PK	SUMTER		2 -2-82		4	< 3			
5905776	2028 CANON, CITY OF	FRANKLIN		1-27-82		1	< 3			
5306318	2029 PROUD ACRES MHP	GLYNN		1-28-82		1	< 3			
5309952	2030 OAK ACRES SD	GLYNN		1-28-82		1	< 4			
5503457	2031 MOULTRIE, CITY OF	COLQUITT		12-22-81		1	< 4			
5306275	2032 DRUID HILLS MHP	GLYNN		1-28-82		1	< 4			
701291	2033 VIDEUTE, CITY OF	BURKE		1-21-82		0	< 3			
2110747	2034 HEHIZIBAH, CITY OF	RICHMOND		1-27-82		1	< 2			
5905794	2035 FRANKLIN SPRINGS	FRANKLIN		1-26-82		1	< 3			
701273	2036 MIDVILLE, CITY OF	BURKE		1-20-82		1	< 4			
410453	2037 WILLIAMSON, CITY OF	PIKE		1-28-82		1	< 2			
507503	2038 SWAN LAKE ESTATES	HENRY		1-28-82		1	< 3			
5204899	2039 BOWMAN, CITY OF	EIBERT		1-27-82		1	< 3			
502512	2040 YACHT&COUNTRY CLUB	CHATHAM		2 -8-82		1	< 3			
209755	2041 CULLOCH, CITY OF	MONROE		2 -3-82		1	< 4			
602373	2042 NEWTON'S MHP	BULLOCH		2 -9-82		1	< 4			
304993	2043 SWAINSBORO, CITY OF	EMANUEL		2 -2-82		1	< 4			
304984	2044 SUMMERTOWN, CITY OF	EMANUEL		2 -2-82		1	< 3			
208820	2045 VALDCOSTA, CITY OF	LOWNDES		2-10-82		1	< 4			
916124	2046 LAKE LANIER MHP	HALL		2 -8-82		1	< 3			
812222	2047 PETROSS WATER SYS	TOOMES		2 -9-82		1	< 4			
521766	2048 WHITFIELD PARK SD	CHATHAM		2 -8-82		1	< 3			
813656	2049 TOOMESBORO, CITY OF	WILKINSON		2 -4-82		1	< 3			

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#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GPSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
2530545	2050	WHITE OAKS SD	CHATHAM	2-8-82		1	< 3			
01602453	2051	WALTER'S MHP	PULLOCH	2-9-82		1	< 4			
3411726	2052	HELENA, CITY OF	TELFAR	2-4-82		1	< 4			
09825089	2053	HIGHLAND PARK SD	MCINTOSH	2-4-82		4	< 4			
01601203	2054	301 TRAILER PARK	PULLOCH	2-8-82		1	< 4			
2502415	2055	SOUTHWINDS SD	CHATHAM	2-8-82		1	< 3			
4712927	2056	JACKSON MHP	WALTON	2-5-82		1	2 + 2			
3812198	2057	VIDALIA, CITY OF	TOOMES	2-8-82		1	< 4			
3815930	2058	KAND M MHP	COWETA	2-10-82		1	< 3			
3812170	2059	LYONS, CITY OF	TOOMES	2-9-82		1	< 4			
3857347	2060	CENTER HILL MHP	TOOMES	2-8-82		1	< 4			
3803935	2061	UTILITIES RES., INC.	COWETA	2-10-82		1	< 4			
01601063	2062	STATESBORO, CITY OF	PULLOCH	2-8-82		1	< 4			
2533342	2063	COFFEE BLUFF WOODS	CHATHAM	2-8-82		1	< 4			
2502354	2064	RIO VISTA SD	CHATHAM	2-8-82		1	< 4			
0309877	2065	MONTGOMERY CORR INST	MONTGOMERY	2-15-82		4	< 4			
8308082	2066	SCOTT WATER&SEWER AU	JOHNSON	2-10-82		1	< 4			
2621151	2067	MASSINGILL TP	SPALDING	3-1-82		1	< 2			
5305002	2068	TWIN CITY, CITY OF	EMANUEL	2-9-82		1	< 4			
3503624	2069	SPENCEFIELD AIRPORT	COLQUITT	1-21-82		1	< 4			
1210361	2070	PICKENS CO WATER SY	PICKENS	2-11-82		4	< 2			
2629023	2071	LOCKWOOD ESTATES	SPALDING	2-16-82		1	< 3			
9016740	2072	CHEROKEE RETREAT WS	LINCOLN	2-10-82		1	< 4			
5605234	2073	ROLLING MEADOWS EST	FAYETTE	2-4-82		1	< 3			
7707729	2074	IRWINVILLE WATERWORK	IRWIN	1-11-82		1	< 3			
5605216	2075	DIX LEE ON ESTATE	FAYETTE	2-4-82		1	< 2			
3027785	2076	PLEASANT VIEW EST	LINCOLN	2-10-82		1	< 4			
7707738	2077	MYSTIC PUBLIC WATER	IRWIN	1-11-82		1	< 4			
3103088	2078	CLAYTON CO WATER AU	CLAYTON	3-3-82		4	< 3			
3721577	2079	SUBURBAN MHP	TIFT	2-2-82		4	7 + 3	7.5	< 1.0	
4813103	2080	DIXIE MHP	WARE	2-17-82		1	< 4			
3833054	2081	PINE HILL ESTATE SD	COWETA	2-22-82		1	< 3			
3505520	2082	HARTSFIELD COMMUNITY	COLQUITT	2-4-82		1	7 + 3	5.2	< 1.0	
3405417	2083	BITTAKER TP	COFFEE	2-16-82		1	3 + 2	3.3	< 1.0	
4025024	2084	RICCONNUCK KNOLL SD	CRISP	2-9-82		5	< 3			
3837126	2085	RUSTICA ESTATE SD	COWETA	2-18-82		1	< 3			
5705338	2086	GEORGIA KRAFT	FLOYD	1-22-82		1	< 3			
1100551	2087	ALPINE VILLAGE MHP	BIBB	2-25-82		1	2 + 2			
2702756	2088	SUMMERVILLE	CHATTOOGA	1-20-82		1	< 3			
0609966	2089	COLUMBUS	MUSCOGEE	1-21-82		1	< 3			
3403335	2090	DOUGLAS, CITY OF	COFFEE	2-15-82		1	2 + 2			
0409883	2091	BOSWICK, CITY OF	MORGAN	2-18-82		1	< 3			
0700663	2092	AUBURN MHP	BARROW	2-25-82		1	3 + 2	0.5		
3103130	2093	ROYAL COURT	CLAYTON	2-24-82		3	37 + 4	0.3	< 1.0	
3623041	2094	MARNELL MHP	FAYETTE	2-25-82		1	< 3			
3820964	2095	HICKORY HOLLOW SD	COWETA	2-22-82		1	2 + 2			
0309822	2096	ALSTON, CITY OF	MONTGOMERY	2-24-82		1	< 3			
3705310	2097	BURLINGTON IND	FLOYD	1-22-82		1	< 3			
823905	2098	SMITHY'S MHP	WARE	2-17-82		2	8 + 4	3.6	< 1.0	
306284	2099	EPWORTH BY THE SEA	GLYNN	2-23-82		1	< 3			

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7812736	2100	PARDUE'S MHP	JACKSON	2-16-82		1	2 + 1			
3826346	2101	MONICA WOODS SD	COWETA	2-18-82		1	< 2			
7827484	2102	COLONY MHP	JACKSON	2-27-82		1	< 2			
3818221	2103	WEDGEWOOD ESTATES	COWETA	2-22-82		1	< 2			
6907012	2104	LAKE SHORE FOREST SD	HALL	2-19-82		1	< 2			
3722072	2105	YANCY TP	TIFT	2 -8-82		1	< 3			
7827545	2106	KUNGSWOOD SD	JACKSON	2-23-82		1	< 2			
7807771	2107	BRASELTON, CITY OF	JACKSON	2-23-82		1	8 + 1	0.4		
4813112	2108	LAZY ACRES MHP	WARE	2-17-82		1	2 + 2			
6906985	2109	CAMERON PT WS	HALL	2-19-82		1	2 + 2			
8413354	2110	JULIE B'S TP	JONES	2-26-82		1	2 + 1			
8107933	2111	AVERA, CITY OF	JEFFERSON	3 -3-82		1	2 + 1			
0216868	2112	JOHNSON TP	MONROE	2-25-82		1	< 2			
2602704	2113	CUSSETA, CITY OF	CHATHAHOOCHEE	3 -3-82		1	< 2			
2621611	2114	CHATHAHOOCHEE CO WS	CHATHAHOOCHEE	3 -3-82		1	< 2			
8422706	2115	4 C'S TP	JONES	2-24-82		1	8 + 2	0.3	< 1.0	
0216938	2116	BOLINGREEN NURS HM	MONROE	2-26-82		1	2 + 1			
8925092	2117	OGDEN TP	LIBERTY	3 -9-82		4	< 3			
18	2118	GEORGIA STATE PRISON	QUITMAN	3 -7-82		4	< 4			
0309859	2119	TARRYTOWN, TOWN OF	MONTGOMERY	3-15-82		4	2 + 2			
0309859	2120	TARRYTOWN, TOWN OF	MONTGOMERY	3-15-82		4	< 3			
5124434	2121	BON AIR APTS	WAYNE	3 -9-82		4	2 + 2			
2001550	2122	WOODBINE, CITY OF	CAMDEN	3-10-82		1	< 4			
2001532	2123	KINGSLAND, CITY OF	CAMDEN	3-11-82		1	< 3			
4812979	2124	WARE COUNTY WATER	WARE	3 -9-82		1	3 + 2	0.9		
3721811	2125	COUNTRY HAVEN MHP	TIFT	2 -2-82		3	68 + 5	72.0	< 1.0	
3308091	2126	WRIGHTSVILLE, CITY	JOHNSON	3 -8-82		6	2 + 2			
3812213	2127	MCNATT FALLS SD	TOOMES	3 -1-82		1	4 + 2	3.3	< 1.0	
3822510	2128	M&T WATERWORKS	TOOMES	3 -9-82		1	8 + 3	6.6	< 1.0	
2611310	2129	SOUTH HAMPTON MHP	SPALDING	3-22-82		4	2 + 1			
4704378	2130	ALBANY, CITY OF	DOUGHERTY	3-11-82		4	2 + 1			
4704378	2131	ALBANY, CITY OF	DOUGHERTY	3-17-82		4	2 + 2			
3909673	2132	MERIWETHER CO CORR	MERIWETHER	3-11-82		1	4 + 1	0.7		
0700259	2133	WINDER	BARROW	1-27-82		1	< 2			
1610512	2134	HARTFORD WATER AUTH	FULASKI	3-10-82		1	2 + 2			
3408140	2135	BAKER'S ACRES MHP	JONES	3 -9-82		1	< 2			
3603658	2136	HARLEM, CITY OF	COLUMBIA	3-16-82		1	2 + 2			
3107942	2137	BARTON, CITY OF	JEFFERSON	3-10-82		1	< 3			
5124328	2138	WHISPERING PINES MHP	WAYNE	3-18-82		1	< 2			
5104847	2139	BLOOMINGDALE SD	EFFINGHAM	3-17-82		1	< 2			
5104856	2140	GOSHER TERRACE SD	EFFINGHAM	3-19-82		1	< 2			
5124267	2141	LAKE SHORE MHP	WAYNE	3-18-82		1	2 + 2			
5406467	2142	CALHOUN	GORDON	1-26-82		1	< 2			
3113210	2143	BROWN'S TERRACE WS	JEFFERSON	3-17-82		1	< 2			
0700259	2144	WINDER	BARROW	1-27-82		1	< 2			
5124416	2145	REST A WHILE NH	WAYNE	3-18-82		1	< 2			
117453	2146	PECAN HAVEN MHP	PEACH	3-17-82		1	< 2			
5124300	2147	WATERS MHP	WAYNE	3-18-82		1	< 3			
818595	2148	DEERWOOD ESTATES	OCONEE	3-11-82		1	6 + 2	0.4		
817766	2149	PINE HILL SD	OCONEE	3-11-82		1	< 2			

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				DATE	DATE		ALPHA PCI/L	226 PCI/L	228 PCI/L	
01000475	2150	ENIGMA, CITY OF	BERRIEN	3-23-82		4	3 + 3	2.5		
02502406	2151	SOUTHSIDE MOBILE EST	CHATHAM	3-22-82		1	< 4			
02514438	2152	LANDINGS	CHATHAM	3-23-82		1	< 4			
02502132	2153	DYCHES MOBILE EST	CHATHAM	3-22-82		1	< 4			
02504144	2154	WHITFIELD MOBILE EST	CHATHAM	3-22-82		1	< 4			
02522963	2155	GROVE POINT MOB EST	CHATHAM	3-22-82		1	< 3			
02502123	2156	COTTONVALE MOB EST	CHATHAM	3-22-82		1	< 4			
01100676	2157	SOUTH GLADE ESTATES	BIBB	3-24-82		4	< 3			
01100676	2158	SOUTH GLADE ESTATES	BIBB	3-24-82		4	< 3			
08937207	2159	LAKEVIEW MHP	LIBERTY	3-24-82		4	< 4			
0109697	2160	BACONTON, CITY OF	MITCHELL	2-25-82		1	< 4			
01601151	2161	LEEFIELD WATER ASN	BULLOCH	3-24-82		1	< 3			
02502381	2162	SKIDAWAY MOB EST	CHATHAM	3-22-82		1	< 4			
01601027	2163	BROOKLET, CITY OF	BULLOCH	3-24-82		1	< 3			

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0500176	2164	H&H MOBILE HOME VILL	BALWIN	3-24-82	8204	1	< 3			
14312497	2165	JEFFERSONVILLE, CITY	TWIGGS	3-26-82	8204	1	< 2			
7835070	2166	STEWARTS MHP	JACKSON	3-19-82	8204	3	< 2			
5916422	2167	BRITTANY HARBOR #2	FRANKLIN	3-30-82	8204	3	42 + 4	11.4	< 1.0	
0800441	2168	PLANT BOWEN, GA POWER	BARTOW	3-19-82	8204	1	< 2			
9315790	2169	CAMP GLISSON	LUMPKIN	3-4-82	8204	1	< 2			
1801401	2170	JACKSON	PUTTS	3-5-82	8204	1	< 2			
6806784	2171	CARNELIA	HABERSHAM	3-16-82	8204	1	< 2			
4712866	2172	JERSEY, CITY OF	WALTON	3-25-82	8204	3	4 + 1	0.5		
2902927	2173	ATHENS	CLARKE	3-31-82	8204	1	< 2			
0817565	2174	WOODLANDS SD/OCONEE	OCONEE	3-25-82	8204	1	< 3			
6806775	2175	CLARKESVILLE	HABERSHAM	3-23-82	8204	1	< 2			
2802805	2176	CANTON WATER SYSTEM	CHEROKEE	3-10-82	8204	1	< 2			
7907884	2177	MONTICELLO	JASPER	3-24-82	8204	1	< 2			
6606557	2178	UNION POINT	GREENE	3-30-82	8204	1	< 3			
5916501	2179	BRITTANY HARBOR WEST	FRANKLIN	3-30-82	8204	3	11 + 2	1.0	2.7	
1722990	2180	TALL TIMBERS WELL #1	PUTNAM	4-6-82	8204	4	22 + 3	1.4	2.0	6 + 1
7024437	2181	ISLAND CREEK WELL #5	HANCOCK	4-6-82	8204	4	2 + 2	0.7		
7024437	2182	ISLAND CREEK WELL #6	HANCOCK	4-6-82	8204	4	8 + 2	1.9		
2802850	2183	LAKE ARROWHEAD	CHEROKEE	4-8-82	8204	2	2 + 1			
9933943	2184	BOB ASSOCIATE TP	MERIWETHER	4-7-82	8204	1	< 2			
0200096	2185	WILLACOCHEE	ATKINSON	4-7-82	8204	1	4 + 2			
0300109	2186	AIMA	BACON	3-31-82	8204	1	2 + 2			
7807814	2187	NICHOLSON	JACKSON	4-6-82	8204	3	4 + 1	0.3		
7824488	2188	HAMILTON MHP #4	JACKSON	4-6-82	8204	5	< 2			
3403326	2189	BROXTON	COFFEE	3-30-82	8204	1	7 + 3			
5416727	2190	PEACEFUL VALLEY	WHITE	4-1-82	8204	2	4 + 1			
2110738	2191	BLTYHE	RICHMOND	3-31-82	8204	1	2 + 1			
2401822	2192	FOLKSTON	CHARLTON	4-6-82	8204	1	< 4			
2723154	2193	TOCCOA FALLS MHP	STEPHENS	4-1-82	8204	5	25 + 3		< 1.0	
7307341	2194	TUGALOO BAY ESTATES	HART	4-1-82	8204	3	16 + 3			
7807814	2195	NICHOLSON	JACKSON	2-25-82	8204	2	2 + 1			
9609450	2196	BUENA VISTA	MARION	1-20-81	8204	3	6 + 1			
3123138	2197	CORNITH WOODS	CLAYTON	1-20-81	8204	0	9 + 2			
3123138	2198	-	CLAYTON	8-5-81	8204	0	9 + 2			
3717743	2199	PINE HILL MHP	TIFT	11-5-81	8204	2	24 + 4			
5916422	2200	BRITTANY HARBOR #2	FRANKLIN	9-25-81	8204	3	45 + 5			
3717743	2201	PINE HILL MHP	TIFT	2-2-82	8204	2	24 + 4			
409298	2202	MARSHALLVILLE, CITY	MACON	2-22-82	8204	3	10 + 2			
5911038	2203	LANTIER VALLEY	HALL	4-16-82	8204	1	< 2			
9907049	2204	PONDEROSA S.D.	HALL	4-13-82	8204	5	< 3			
414072	2205	PARKVIEW VILLAGE MHP	COFFEE	4-6-82	8204	5	< 4			
9907085	2206	MILLIKEN AND CO.	HALL	4-13-82	8204	5	< 4			
921191	2207	TRAILWOOD ACRES MHP	HALL	4-13-82	8204	5	< 2			
903027	2208	WE ACRES TP	CLARKE	4-16-82	8204	1	< 2			
201767	2209	OAKWOOD MHP	CARROLL	4-14-82	8204	1	< 2			
619833	2210	MEADOW HAVEN TP	HOUSTON	4-14-82	8204	2	18 + 3			
316143	2211	YORK SD	HART	4-1-82	8204	5	< 3			
203797	2212	COOK'S MHP	CARROLL	4-13-82	8204	1	< 2			
403344	2213	NICHOLLS, CITY OF	COFFEE	3-30-82	8204	2	4 + 3			

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#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
5405081	2214	EVANS MEMORIAL HOSP.	EVANS	4-15-82	8204	1	< 3			
06907021	2215	LEISURE LAKE CONDO	HALL	4-16-82	8204	1	< 3			
1919124	2216	SKY VALLEY RESORT	RAVEN	4-7-82	8204	1	< 3			
06916674	2217	MOUNTAINVIEW LAKE ES	HALL	4-16-82	8204	1	< 2			
06916869	2218	MERRITT MHP	HALL	4-13-82	8204	1	< 2			
06907094	2219	MILLIKEN & CO (NH)	HALL	4-13-82	8204	5	< 3			
5405045	2220	DAISY, CITY OF	EVANS	4-15-82	8204	1	< 4			
06919974	2221	GIBSON MHP	HALL	4-13-82	8204	1	< 4			
0606586	2222	WHITE PLAINS, CITY OF	GREENE	4-14-82	8204	2	37 + 5			
0800405	2223	HIDDEN VALLEY SD	BARTOW	4-15-82	8204	2	2 + 2			
5405027	2224	BELEVILLE, CITY OF	EVANS	4-15-82	8204	1	< 3			
0909600	2225	MANCHESTER, CITY OF	MERIWETHER	4-15-82	8204	4	< 2			
7024437	2226	ISLAND CREEK WELL #6	HANCOCK	4-19-82	8204	4	7 + 3			
2203982	2227	J C POLK REST HOME	CARROLL	4-13-82	8204	1	< 3			
2203900	2228	ROLLIN HILLS MHP	CARROLL	4-14-82	8204	1	2 + 1			
2915846	2229	SEMINOLE MHP	CLARKE	4-16-82	8204	3	42 + 5			
6907030	2230	LODGE HAVEN SD	HALL	4-15-82	8204	1	< 3			
2221969	2231	MEMORY SPRINGS MHP	CARROLL	4-13-82	8204	1	< 3			
7024437	2232	ISLAND CREEK	HANCOCK	4-19-82	8204	4	6 + 3			
9909600	2233	MANCHESTER, CITY OF	MERIWETHER	4-15-82	8204	5	< 2			
2201688	2234	ROAPVILLE, CITY OF	CARROLL	4-13-82	8204	1	< 2			
0309868	2235	UVALDA, CITY OF	MONTGOMERY	4-2-82	8204	1	< 4			
5907003	2236	L. IANIER SAIL C. SD	HALL	4-15-82	8204	2	19 + 3			
0200087	2237	PEARSON, CITY OF	ATKINSON	4-7-82	8204	1	< 4			
0609450	2238	BUENA VISTA, CITY OF	MARION	2-10-82	8204	3	7 + 2			
1000475	2239	ENIGMA, CITY OF	BERRIEN	2-22-82	8204	2				
0203398	2240	TALBOT CO WATER SYS	TALBOT	2-10-82	8204	2	< 2			
0209027	2241	OAK ST. SD	LOWNDES	2-23-82	8204	1	< 3			
7607591	2242	WARNER ROBINS, CITY	HOUSTON	3-31-82	8204	5	< 2			
0907058	2243	SHADY GROVE TP	HALL	4-16-82	8204	5	< 3			
0403344	2244	NICHOLS, CITY OF	COFFEE	3-30-82	8204	5	< 4			
0013225	2245	TENNILLE, CITY OF	WASHINGTON	4-9-82	8204	1	< 2			
0644216	2246	H M H ENTERPRISES	SPALDING	5-6-82	8204	4	5 + 3			
0309831	2247	CHARLOTTE WATER ASSN	MONTGOMERY	4-2-82	8204	1				
ID	2248	PARKVIEW VILLAGE		10-7-81	8204	5	3 + 2			
0500447	2249	SHALIMAR COVE MHP	BALDWIN	4-8-82	8204	1	< 3			
0517084	2250	SANGRENA WOODS S/D	CHATHAM	4-14-82	8204	5	< 3			
7307341	2251	TUGALOO BAY EST	HART	7-7-81	8204	0	19 + 3			
0318164	2252	WALSH'S MHP	GLYNN	4-12-82	8204	1	< 4			
0909600	2253	MANCHESTER, CITY OF	MERIWETHER	4-15-82	8204	1	< 2			
0915846	2254	SEMINOLE VILLAGE	CLARKE	4-1-82	8204	0				
0907049	2255	PONDEROSA S/D	HALL	4-13-82	8204	4	1 + 1			
0313369	2256	ALAMO	WHEELER	7-28-81	8204	5	50 + 5			< 2
500911	2257	PIMEROKE, CITY OF	RYAN	4-20-82	8204	1	< 2			
0909628	2258	WOODBURY, CITY OF	MERIWETHER	4-15-82	8204	1	< 2			
0104883	2259	WESTWOOD HEIGHTS	EFFINGHAM	4-20-82	8204	1	< 3			
006025	2260	UNION CITY	FULTON	4-16-82	8204	0	< 2			
705286	2261	ROME, CITY OF	FLOYD	4-15-82	8204	1	< 2			
502141	2262	EAST PINES S/D	CHATHAM	4-19-82	8204	1	< 3			
0957207	2263	LAKEVIEW TP	LIBERTY	4-20-82	8204	2	< 4			

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W-#	SAMPLE WS #	LOCATION	COUNTY	COLLECT		TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
				DATE	DATE					
1510477	2264	RINCON, CITY OF	BRYAN	4-20-82	8204	1	< 3			
9909576	2265	GREENVILLE, CITY OF	MERIWETHER	4-15-82	8204	1	< 2			
2502026	2266	GOLIEN ISLES S/D	CHATHAM	4-19-82	8204	1	< 4			
3712003	2267	TIFTON, CITY OF	TIFT	3 -9-82	8204	1				
5813610	2268	GORDON, CITY OF	WILKINSON	4-28-82	8204	6				
7515269	2269	LITTLE MIN. VILLAGE	HENRY	4-23-82	8204	1				
2024247	2270	KINGS BAY NSB SPRT	CAMDEN	4 -1-82	8204	3				
1113911	2271	B&G GOODALL MILL	BIBB	4-22-82	8204	1				
9208972	2272	GREENVALLEY MHP	LOWNDES	4 -1-82	8204	1	< 2			
0116700	2273	SHADY GROVE TP	MITCHELL	3-29-82	8204	1	< 3			
3623576	2274	OAKLANE S/D	THOMAS	3-23-82	8204	0	< 4			
5605225	2275	NEWTON PLANTATION	FAYETTE	4-20-82	8204	1	< 3			
3107979	2276	WADLEY, CITY OF	JEFFERSON	4-21-82	8204	1	< 3			
ID	2277	DACULA, CITY OF		4 -1-82	8204	0	< 3			
1100603	2278	B&G JONES RD. S/D	BIBB	4-22-82	8204	1	< 3			
0500158	2279	NORTHPOINT/SPITMAN PT	BALDWIN	4-22-82	8204	1	< 3			
5813610	2280	GORDON, CITY OF	WILKINSON	4-28-82	8204	6				
1100560	2281	B&G GIBSON DR. S/D	BIBB	4-22-82	8204	1	< 3			
5813610	2282	GORDON, CITY OF	WILKINSON	4-28-82	8204	6				
1113887	2283	B&G VON REG S/D	BIBB	4-22-82	8204	1	< 3			
5813610	2284	GORDON, CITY OF	WILKINSON	4-28-82	8204	6				
5813638	2285	GORDON, CITY OF	WILKINSON	4-28-82	8204	6				
5813610	2286	GORDON, CITY OF	WILKINSON	4-28-82	8204	6				
1100588	2287	B&G HOOPER HILL S/D1	BIBB	4-22-82	8204	1	< 3			
1100597	2288	B&G HOOPER HILL S/D2	BIBB	4-22-82	8204	1	< 2			
1113896	2289	B&G THORN HILL S/D	BIBB	4-22-82	8204	1	< 2			
5706662	2290	LAWRENCEVILLE, CITY OF	GWINNETT	4-16-82	8204	1	< 2			
5706671	2291	LAWRENCEVILLE, CITY OF	GWINNETT	4-16-82	8204	1	< 2			
5304993	2292	SWAINSBORO, CITY OF	EMANUEL	4-21-82	8204	6	< 4			
1100579	2293	B&G GREEN HILL S/D	BIBB	4-22-82	8204	1	< 2			

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Table 21

Fallout from Atmospheric Nuclear Tests in
Airborne Particles - State Building Samples

Sample	Sample date 1982	Volume m ³	Gross beta pCi/m ³	Radionuclide concentration, fCi/m ³						
				Be-7	Zr-95	Nb-95	Ru-103	Cs-137	Ce-141	Ce-144
S1892	3/22-4/16	5,409	<0.01	4	<1	<1	<1	<1	<1	<2
S1893	4/16-4/22	1,269	<0.01	<14	<3	<2	<2	<2	<2	<8
S1895	4/22-4/29	12,096	0.01	100	<0.3	<0.2	<0.5	<0.4	<0.2	1

Notes: 1. Gross beta activity was measured 4-days after collection. Among the shorter-lived fission products that were searched for are I-131 and Ba-140.

2. The filters are 12.5-cm-dia charcoal impregnated pads.

Table 22

Fallout from Atmospheric Nuclear Tests
in Rainwater

<u>Sample No.</u>	<u>Sampling date, 1982</u>	<u>Location</u>	<u>Gross beta, pCi/l</u>	<u>Cs-137 concentration, pCi/l</u>
S1894	4/22	Health Bldg.	6 \pm 2	<10
S1896	4/29	Health Bldg.	4 \pm 2	<20

Note: Samples of 500 ml were analyzed for man-made photon-emitting radionuclides. None were found.

Table 23

BCIA BOWER NUCLEAR PLANT HATCH ... 811119-820409: 141 DAYS

TLD#	MR	MICRR/HR	MR/YR
4.0 (+-)	9.3 3.9	2.8 1.2	24.1 10.2
16.0 (+-)	12.7 4.1	3.7 1.2	32.8 10.6
22.0 (+-)	13.5 4.3	4.0 1.3	35.0 11.2
23.0 (+-)	11.5 4.0	3.4 1.2	29.7 10.4
24.0 (+-)	12.8 3.9	3.8 1.1	33.1 10.0
25.0 (+-)	9.8 4.2	2.9 1.2	25.3 10.8
28.0 (+-)	12.6 4.0	3.7 1.2	32.7 10.4
29.0 (+-)	9.4 4.3	2.8 1.3	24.3 11.2
33.0 (+-)	13.2 4.1	3.9 1.2	34.1 10.6
36.0 (+-)	9.3 4.2	2.8 1.2	24.2 10.9
37.0 (+-)	12.8 4.1	3.8 1.2	33.1 10.6
39.0 (+-)	10.5 4.2	3.1 1.2	27.1 10.8
41.0 (+-)	14.1 2.2	4.2 0.6	36.6 5.6
42.0 (+-)	11.6 2.6	3.4 0.8	30.1 6.7
43.0 (+-)	14.3 3.3	4.2 1.0	37.1 8.6
NFC. AVG.:	11.8	3.5	30.6
(+-)	3.5	1.0	9.2

ECIA POWER NUCLEAR PLANT HATCH ... 820203-820409: 65 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0	6.8	4.4	38.1
(+-)	3.9	2.5	21.7
2.0	6.7	4.3	37.8
(+-)	3.9	2.5	21.7
3.0	7.4	4.8	41.7
(+-)	3.8	2.4	21.3
5.0	6.6	4.2	37.2
(+-)	3.8	2.5	21.5
6.0	6.6	4.2	36.8
(+-)	3.9	2.5	21.6
7.0	6.1	3.9	34.5
(+-)	3.8	2.4	21.3
8.0	4.1	2.6	22.9
(+-)	4.0	2.5	22.2
9.0	5.6	3.6	31.3
(+-)	3.8	2.4	21.2
11.0	4.0	2.6	22.7
(+-)	3.9	2.5	22.1
12.0	7.1	4.5	39.6
(+-)	4.2	2.7	23.6
13.0	7.9	5.1	44.4
(+-)	3.9	2.5	21.7
14.0	6.5	4.2	36.7
(+-)	3.9	2.5	21.8
15.0	5.8	3.7	32.7
(+-)	3.9	2.5	21.6
17.0	6.4	4.1	36.2
(+-)	4.0	2.6	22.6
18.0	7.1	4.5	39.8
(+-)	4.0	2.5	22.3
19.0	5.9	3.8	33.4
(+-)	3.8	2.4	21.2
20.0	6.0	3.8	33.6
(+-)	4.0	2.6	22.4
21.0	5.6	3.6	31.7
(+-)	4.1	2.7	23.3

20.0	5.8	3.7	32.1
(+-)	3.8	2.4	21.3
30.0	6.3	4.0	35.2
(+-)	3.8	2.5	21.5
31.0	5.6	3.6	31.3
(+-)	4.0	2.5	22.2
32.0	6.8	4.4	38.2
(+-)	3.8	2.4	21.4
34.0	6.6	4.3	37.3
(+-)	4.0	2.6	22.4
38.0	6.3	4.0	35.4
(+-)	2.7	1.7	15.0
40.0	6.3	4.0	35.1
(+-)	4.9	3.1	27.5
44.0	5.0	3.2	27.9
(+-)	5.2	3.3	29.0
NET. AVG.:	6.2	4.0	34.8
(+-)	1.8	1.1	10.0

ATE BACKGROUND ... 811119-820409: 141 DAYS

TLD#	MR	MICRF/HR	MR/YR
4.0	22.8	6.7	59.0
(+-)	3.4	1.0	8.7
5.0	19.2	5.7	49.7
(+-)	2.8	0.8	7.2
6.0	16.8	5.0	43.4
(+-)	7.8	2.3	20.1
7.0	13.7	4.0	35.4
(+-)	2.7	0.8	6.9
8.0	12.0	3.6	31.2
(+-)	4.2	1.2	10.8
NET. AVG.:	16.9	5.0	43.8
(+-)	8.6	2.5	22.3

E 24-677

Georgia Institute of Technology
A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA
SCHOOL OF NUCLEAR ENGINEERING AND HEALTH PHYSICS
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ENVIRONMENTAL RADIATION LABORATORY
205 Old Civil Engineering Building

(404) 894-2375

M E M O R A N D U M

TO: James Hardeman, Program Manager
Environmental Radiation Program
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director *Bernd Kahn*
Environmental Resources Center

DATE: June 22, 1982

SUBJ: Monthly Report of Activities for the State by the Environmental
Radiation Laboratory, May 1982.

The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental monitoring at nuclear facilities by DNR staff	Table 1 - 25
Monitoring other locations by DNR staff	Table 26
Monitoring fallout	Table 27
Monitoring by DNR staff of Community Water Systems	Table 28
TLD radiation data at nuclear facilities obtained by DNR staff	Table 29

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity attributed to the facility:

Table 5 --	Zn-65 at barely detectable level in clam samples collected near the Hatch plant
Tables 18, 19, 20 & 23 --	H-3 in rain, surface and ground water and in milk near the Savannah River Plant

All other radionuclides in Tables 1 - 25 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

Smears taken on a drum at Atlanta airport had no significant gross beta activity or H-3 concentrations, as shown in Table 26.

No radioactivity attributable to recent fallout was detected in airborne particles collected on filters in Atlanta, as shown in Table 27.

Radioactivity results from community water supplies are compiled in Table 28. These include samples WS 1850 - 2293 reported earlier, and samples WS 2294 - 2360. The following for which radium analyses were completed during the month exceeded 5 pCi/l:

- WS 2189 Broxton
- WS 2199 Pine Hill MHP (also 2201)
- WS 2200 Brittany Harbor #2 (see earlier reports also)
- WS 2202 Marshallville (see earlier reports also)
- WS 2210 Meadow Haven TP (see earlier reports also)
- WS 2229 Seminole MHP (see earlier reports also)
- WS 2256 Alamo (also 2315)
- WS 2282 Gordon (also 2284, 2285, 2286)

In the discussion for the March 1982 report, sample WS 1899 should read WS 1897. Sample WS 1899, Royal Court MHP, should also be included in the list of supplies with radium levels above 5 pCi/l.

Water supply samples with gross alpha activity levels at or above 5 pCi/l still to be analyzed for radium include: WS 2238, 2239, 2246, 2247, 2248, 2254, 2295, 2306, 2332, and 2347.

Uranium analyses have been completed for samples with elevated gross alpha activity not attributable to radium. The following samples have uranium concentrations above 15 pCi/l:

- WS 1891 Camak
- WS 1899 Royal Court MHP
- WS 1900 Double E MHP
- WS 1906 Seminole MHP
- WS 1924 Tall Timbers Well #1

TLD measurements obtained in the environment in Georgia near the Farley nuclear plant and the Savannah River Plant are reported in Table 29. The exposure rates near Farley ranged from 36 to 60 mR/year, while values at background locations were between 42 and 67 mR/year. At SRP, exposure rates were between 28 and 64 mR/year, and background values were between 27 and 70 mR/year. All values were attributable to the natural radiation background.

Table 1

Radioactivity Levels in Milk Samples from
the Environment of the Hatch Nuclear Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B586*	GSP	<5	3	<10	1.4	400 ± 200	<0.5
B587*	Williamson	<5	6	< 6	1.6	200 ± 200	<0.3
B588	Johnson Bros.	<5	2	< 6	1.5	<200	<0.4

Notes: 1. Samples were collected on May 11, 1982.
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 2

Radioactivity Levels in Air Samples from the
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m³</u>	<u>Radionuclide concentration, pCi/m³</u>	
				<u>I-131</u>	<u>Gross beta</u>
B589*	Cartridge	Substation	272	<0.01	---
B590*	Filter paper	Substation	272	---	0.007
B591*	Cartridge	Plant Hatch	272	<0.01	---
B592*	Filter paper	Plant Hatch	272	---	0.005
B593*	Cartridge	Dead River Rd.	272	<0.01	---
B594*	Filter paper	Dead River Rd.	272	---	0.010

-
- Notes: 1. Samples were collected on May 25, 1982 after 7-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 3

Radioactivity Levels in Squash Sample from the
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>	
		<u>Cs-137</u>	<u>Be-7</u>
B595*	Appling Co. PP-82-902	<20	<200

-
- Notes: 1. Sample was collected on June 2, 1982.
2. No other man-made photon-emitting radionuclides were detected.
Be-7 is formed in nature.

Table 4

Radioactivity Levels in Sediment Samples from the
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>			
		<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
B596	HNP #170	140	5,200	800	700
B597	HNP #172	91	7,100	1,100	1,200

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- Notes: 1. Samples were collected on May 18, 1982.
2. No other man-made photon-emitting radionuclides were detected.

Table 5

Radioactivity Levels in Clam Samples
from the Environment of the Hatch Nuclear Plant

<u>Sample #</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>	
		<u>Cs-137</u>	<u>Zn-65</u>
B598*	HNP #170	<20	<20
B599*	HNP #172	<20	25

Notes: 1. Samples were collected by Georgia Power Co. staff on May 18, 1982.
2. No other man-made photon-emitting radionuclides were detected.

Table 6
Radioactivity Levels in Water Samples from
the Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B600	Altamaha R. #170	<3	3 ± 2	<200	<0.6
B601	Altamaha R. #172	2 ± 2	3 ± 2	<200	<0.7

Notes: 1. Samples were collected on May 28, 1982.
2. No man-made photon-emitting radionuclides were detected (Cs-137 <20 pCi/l).

Table 7

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
F405	Chattahoochee R. down- stream at Great Southern Paper Co.	<5	<2
F412	Chattahoochee R. down- stream at Great Southern Paper Co.	<5	<2
F421	Chattahoochee R. down- stream at Great Southern Paper Co.	<5	<2

Note: Sample F405 was collected January 29, 1982. Other results were given in Table 4 of the Monthly Report for January, 1982. Sample F412 was collected January 29 - March 4, 1982. Other results were given in Table 7 of the Monthly Report for March, 1982. Sample F421 was collected March 4 - April 8, 1982. Other results were given in Table 10 of the Monthly Report for April, 1982.

Table 8

Radioactivity Levels in Sediment Sample from the
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>			
		<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
F422*	Chattahoochee R. downstream	<30	1,300	<200	<200

Notes: 1. Sample was collected on May 5, 1982.
2. No other man-made photon-emitting radionuclides were detected.

Table 9

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
F423*	Chattahoochee R. downstream	3 ± 2	3 ± 2	<200	<5	<2
F424*	Chattahoochee R. upstream	<3	2 ± 2	400 ± 200	<5	<2
F429*	Chattahoochee R. downstream at Great Southern Paper Co.	<2	3 ± 1	500 ± 200	--	--

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- Notes: 1. Samples were collected by Alabama Power Company staff; samples F423 and 424 are for the first quarter of 1982; sample F429 was collected April 8 - May 13, 1982.
2. No man-made photon-emitting radionuclides were detected (Cs-137 <20 pCi/l).

Table 10

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m³</u>	<u>Radionuclide concentration, pCi/m³</u>	
				<u>I-131</u>	<u>Gross beta</u>
F425*	Cartridge	Great Southern Paper Airport	997	<0.005	---
F426*	Filter paper	Great Southern Paper Airport	997	---	0.016
F427*	Cartridge	Blakely Water Tower	1042	<0.005	---
F428*	Filter paper	Blakely Water Tower	1042	---	0.018

-
- Notes: 1. Samples were collected on May 13, 1982 after 7-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 11

Radioactivity Levels in Soil Samples from the
Environment in Georgia of the Farley Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg			
		Cs-137	K-40	Ra-226	Ra-228
F430	W. site boundary	102	1,800	1,100	1,400
F431	TLD # 3	330	<200	600	600
F432	TLD # 8	75	1,200	700	400
F433	TLD #12	<40	600	800	800
F434	TLD #12	300	1,200	700	700
F435	TLD #20	<40	2,300	300	400
F436	TLD #24	320	10,200	1,500	1,800

-
- Notes: 1. Samples were collected on May 20 - 21, 1982.
2. No other man-made photon-emitting radionuclides were detected.

Table 12

Radioactivity Levels in Grass Samples from the
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>	
		<u>Cs-137</u>	<u>Be-7</u>
F437	TLD #20	<30	1,970
F438	TLD # 1	<30	480
F439	TLD # 3	130	460
F440	TLD # 8	<30	590
F441	TLD #12	54	550
F442	TLD #24	<30	580
F443	W. site boundary	52	1,270

-
- Notes: 1. Samples were collected on May 20 - 21, 1982.
2. No other man-made photon-emitting radionuclides were detected.
Be-7 is formed in nature.

Table 13

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
F444	TLD #12, surface	<3	2 ± 2	<200
F445	TLD #20, surface	<3	2 ± 2	<200
F446	TLD # 1, ground	<4	3 ± 2	<200
F447	TLD #11, ground	<4	<3	<200
F448	TLD #20, ground	<5	3 ± 2	<200
F449	TLD #21, ground	<3	<3	<200
F450	TLD #18, drainage	--	--	<200
F451	TLD #11, drainage	--	--	<200
F452	Coheelee Creek, drainage	--	--	<200
F453	Drainage	--	--	<200

Note: Samples were collected on May 20, 1982.

Table 14

Radioactivity Levels in Soil Samples from the
Environment in Georgia of the Kings Bay Submarine Base

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>			
		<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
KB138	Soil #4 Plum orchard Cumberland Island	940	800	400	400
KB139	Soil #3 Dungeness Cumberland Island	370	500	400	400

Notes: 1. Samples were collected on April 28, 1982.
2. No other man-made photon-emitting radionuclides were detected.

Table 15

Radioactivity Levels in Vegetation Samples from the
Environment in Georgia of Kings Bay Submarine Base

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>	
		<u>Cs-137</u>	<u>Be-7</u>
KB140	Vegetation #3 Dungeness Cumberland Island	<40	1,820
KB141	Vegetation #4 Plum orchard Cumberland Island	470	1,490

-
- Notes: 1. Samples were collected on April 28, 1982.
2. No other man-made photon-emitting radionuclides were detected.
Be-7 is formed in nature.

Table 16

Radioactivity Levels in Water Samples from
the Environment of the Kings Bay Submarine Base

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
KB142	TLD #13 Cumberland Island	<25	160 ± 25	200 ± 200
KB143	TLD #14 Cumberland Island	<27	210 ± 26	<200

-
- Notes:
1. Samples were collected on April 28, 1982.
 2. No man-made photon-emitting radionuclides were detected (Cs-137 <20 pCi/l).
 3. The gross beta activity is elevated because of K-40 in sea water; "less than" gross alpha activity values are high because only small volumes (10 ml) could be used due to salt content.

Table 17

Radioactivity Levels in Water Sample from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
SR496	Hwy. 301	<5	<2

-
- Notes: 1. Sample was collected January 7 - February 2, 1982. Other results are given in Table 11 of the Monthly Report for February, 1982.
2. Strontium was determined on this monthly composite instead of a quarterly composite because no samples were received for February and March.

Table 18

Radioactivity Levels in Milk Samples from
the Environment in Georgia of the Savannah River Plant

Sample #	Location	Sr-89, pCi/l	Sr-90, pCi/l	Cs-137, pCi/l	K, g/l	H-3, pCi/l	I-131, pCi/l
SR577*	Dixon	<5	4	---	---	---	---
SR578*	Boyce	<5	2	---	---	---	---
SR579*	McElmurray	<5	<2	---	---	---	---
SR587*	Dixon	<5	5	---	---	---	---
SR588*	Boyce	<5	2	---	---	---	---
SR589*	McElmurray	<5	2	---	---	---	---
SR655*	Gracewood	<5	3	<10	1.6	300 ± 200	<0.2
SR665*	Boyce	<5	3	< 6	1.6	<200	<1.5
SR666*	Dixon	<5	3	<10	1.6	600 ± 200	Note 2

-
- Notes: 1. Samples SR577 and SR579 were collected on March 25, 1982. Sample SR578 was collected on April 1, 1982. Other results are given in Table 12 of the Monthly Report for April, 1982. Samples SR587 - 589 were collected on April 22, 1982. Other results are given in Table 15 of the Monthly Report for April, 1982. Sample SR655 was collected on May 24, 1982. Samples SR665 - 666 were collected on May 20, 1982.
2. Sample SR666 was too coagulated for I-131 analyses.
3. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 19

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR590*	R-2 Savannah R.	---	---	---	<0.9
SR591*	R-10 Savannah R.	---	---	---	<2.
SR656*	R-2 Savannah R.	2 ± 2	4 ± 2	400 ± 300	<2.
SR657*	R-10 Savannah R.	<2	2 ± 2	$2,900 \pm 200$	<0.8
SR658*	So. Richmond rainwater	---	---	<200	---
SR659*	Hwy 301 rainwater	---	---	300 ± 200	---
SR660*	Hwy 301 rainwater	---	---	300 ± 200	---
SR661*	So. Richmond rainwater	---	---	400 ± 300	---
SR662*	Perkins rainwater	---	---	600 ± 200	---
SR663*	Augusta rainwater	---	---	900 ± 300	---
SR664*	Augusta rainwater	---	---	$1,400 \pm 300$	---

-
- Notes: 1. Samples SR590 - 591 were collected on April 20, 1982. Other results are given in Table 16 of the Monthly Report for April, 1982. Samples SR 656 - 657 were collected on May 18, 1982. Samples SR658, 659, 663 were collected April 22 - May 6, 1982. Samples SR 660, 661, 662, 664 were collected May 6 - 20, 1982.
2. No man-made photon-emitting radionuclides were detected (Cs-137 <20 pCi/l) in samples SR656 and 657.

Table 20

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR602	Savannah R. down- stream at Hwy 301	<4	4 ± 2	400 ± 300	<0.4
SR632	TLD # 8, drainage	--	---	600 ± 200	--
SR633	TLD #10, drainage	--	---	1,000 ± 200	--
SR634	TLD #16, drainage	--	---	1,200 ± 200	--
SR635	TLD #19, drainage	--	---	300 ± 200	--
SR636	TLD #20, drainage	--	---	<200	--
SR637	TLD #10, surface	<2	4 ± 2	<200	--
SR638	TLD #10, surface	<3	3 ± 2	<200	--
SR639	TLD #11, surface	<3	5 ± 2	<200	--
SR640	TLD #15, surface	<3	3 ± 2	1,800 ± 200	--
SR641	TLD #16, surface	4 ± 3	6 ± 2	1,800 ± 300	--
SR642	TLD #17, surface	<3	3 ± 2	2,900 ± 300	--
SR643	TLD #20, surface	<2	4 ± 2	2,800 ± 300	--
SR644	TLD #25, surface	<3	2 ± 2	<300	--
SR645	TLD # 1, ground	<2	2 ± 2	<300	--
SR646	TLD # 6, ground	<3	2 ± 2	<300	--
SR647	TLD #10, ground	<4	2 ± 2	700 ± 300	--
SR648	TLD #11, ground	<3	<3	<300	--
SR649	TLD #12, ground	<3	<2	<300	--
SR650	TLD #14, ground	<3	<2	<300	--
SR651	TLD #16, ground	<3	<3	<300	--
SR652	TLD #17, ground	<4	3 ± 2	<300	--
SR653	TLD #20, ground	<4	4 ± 2	<300	--
SR654	TLD #25, ground	<3	2 ± 2	<300	--

- Notes: 1. Samples were collected on May 18, 1982.
2. No man-made photon-emitting radionuclides were detected (Cs-137 <20 pCi/l) in sample SR602.

Table 21

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Savannah River Plant

Sample No.	Sample type	Location	Volume, m ³	Radionuclide concentration, pCi/m ³	
				I-131	Gross beta
SR603*	Cartridge	Girard	229	<0.02	--
SR604*	Filter paper	Girard	229	--	0.020
SR605*	Cartridge	Plant Vogtle	440	<0.02	--
SR606*	Filter paper	Plant Vogtle	440	--	0.009
SR607*	Cartridge	Youth Development Center, Augusta	378	<0.02	--
SR608	Filter paper	Youth Development Center, Augusta	378	--	0.008

-
- Notes: 1. Samples were collected on April 28, 1982 after 29-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 22

Radioactivity Levels in Quarterly Composite Air Filters
from the Environment in Georgia of the Savannah River Plant

<u>Samples No.</u>	<u>Location</u>	<u>Dates, 1982</u>	<u>Volume, m³</u>	<u>Cs-137 concentration, pCi/m³</u>
SR493, 568, 581	Girard	Jan. - Mar.	1348	<0.002
SR495, 566, 583	Plant Vogtle	Jan. - Mar.	1613	<0.002
SR491, 564, 585	Youth Development Center, Augusta	Jan. - Mar.	1350	<0.002

-
- Notes: 1. Three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports and Table 21 for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 23

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SRP609*	I&D Water Supply	<2	2 ± 1	2100 ± 200	<0.4

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- Notes: 1. Sample was collected May 4 ~ 11, 1982.
2. No man-made photon-emitting radionuclides were detected (Cs-137 <20 pCi/l).

Table 24

Radioactivity Levels in Sand Samples from the
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>			
		<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
SR610	TLD # 1	<30	300	400	500
SR611	TLD # 6	240	9,500	1,400	1,500
SR612	TLD # 8	<30	400	1,000	600
SR613	TLD #10	36	2,200	500	500
SR614	TLD #11	210	400	400	800
SR615	TLD #15	88	10,500	1,000	800
SR616	TLD #16	<30	800	600	700
SR617	TLD #17	<30	1,600	300	400
SR618	TLD #20	300	2,000	1,300	1,000
SR619	TLD #22	160	200	900	800
SR620	TLD #25	<30	400	1,000	1,000

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- Notes: 1. Samples were collected on May 18, 1982.
2. No other man-made photon-emitting radionuclides were detected.

Table 25

Radioactivity Levels in Grass and Cactus Samples from the
Environment in Georgia of Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>	
		<u>Cs-137</u>	<u>Be-7</u>
SR621	TLD # 1	<30	1,170
SR622	TLD # 8	<30	1,510
SR623	TLD #10	73	530
SR624	TLD #11	200	<160
SR625	TLD #15	<30	460
SR626	TLD #16	<30	590
SR627	TLD #11	<30	1,020
SR628	TLD #17	41	750
SR629	TLD #20	138	2,400
SR630	TLD #22	44	1,330
SR631	TLD #25	31	1,390

-
- Notes: 1. Samples were collected on May 18, 1982. Sample SR624 is cactus; all others are grass.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature. Sample SR624 contained H-3 at $4,300 \pm 300$ pCi/l; this sample was water distilled for analyses.

Table 26

Radioactivity Levels in Smears from Drum
at Eastern Airlines Cargo Area

<u>Sample No.</u>	<u>Gross alpha, pCi/100cm²</u>	<u>Gross beta, pCi/100cm²</u>	<u>H-3, pCi/100cm²</u>
S1897	<0.5	<0.5	<5
S1898	<0.5	0.4 ± 0.3	<5

Notes: 1. Samples were collected on May 10, 1982 by DNR staff.

Table 27

Fallout from Atmospheric Nuclear Tests of
Airborne Particles - State Building Samples

Sample No.	Sample date, 1982	Volume, m ³	Gross beta, pCi/m ³	Radionuclide concentration, fCi/m ³						
				Be-7	Zr-95	Nb-95	Ru-103	Cs-137	Ce-141	Ce-144
S1899	May 10 - 14	6,910	0.02	105	<1	<1	<1	<1	<1	<1
S1900	May 14 - 24	17,300	0.03	90	<1	<1	<1	<1	<1	<1
S1901	May 24 - June 1	12,100	0.03	68	<1	<1	<1	<1	<1	<1

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- Notes: 1. Gross beta activity was measured 4 days after collection. Be-7 is of natural origin. Among the shorter-lived fission products that were searched for are I-131 and Ba-140.
2. The filters are 12.5-cm-dia. charcoal-impregnated pads.

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
314012283	1850	SOPERTON, CITY OF	TREUTLEN	11-4-81	8201	1	2 + 2			
313812189	1851	SANTA CLAUS, CITY OF	TOOMES	11-4-81	8201	1	< 3			
307007100	1852	DEVEREUX WATER WORKS	HANCOCK	11-9-81	8201	1	3 + 1			
308920884	1853	FLOYDS MHP	LIBERTY	11-5-81	8201	1	< 3			
315613546	1854	PITTS, CITY OF	WILCOX	11-3-81	8201	1	< 4			
315613564	1855	SEVILLE, CITY OF	WILCOX	11-3-81	8201	1	< 3			
303603737	1856	MARTINEZ WATER CO.	COLUMBIA	11-6-81	8201	1	5 + 2	< 0.1		
408933436	1857	SALTER MHP	LIBERTY	11-0-81	8201	1	< 3			
410216947	1858	HILLTOP NURSING HOME	MONROE	11-3-81	8201	1	< 3			
305304948	1859	AIRIAN, CITY OF	EMANUEL	11-3-81	8201	1	< 3			
311615629	1860	ARNOLDS MHP	PULASKI	11-5-81	8201	1	< 3			
305122016	1861	FOXBOW FARMS S/D	EFFINGHAM	11-4-81	8201	1	< 3			
401501966	1862	CONLEY MHP	BRYAN	11-4-81	8201	1	< 3			
302524075	1863	SAVANNAH, WELL #26	CHATHAM	11-5-81	8201	5	< 3			
NO ID	1864	NICKOLES MINISTRIES		11-12-81	8201	1	< 3			
312110808	1865	CASTLE PINES MHP	RICHMOND	11-10-81	8201	0	< 2			
315113338	1866	WAYNE CORRECT. INST	WAYNE	11-12-81	8201	1	< 3			
312715054	1867	TOCCOA FALLS COLLEGE	STEPHENS	10-27-81	8201	1	2 + 2			
312715054	1868	TOCCOA FALLS COLLEGE	STEPHENS	10-27-81	8201	1	3 + 1			
307607814	1869	NICHOLSON, CITY OF	JACKSON	11-16-81	8201	3	2 + 1			
311210370	1870	BENT TREE COUNTRY C	PICKENS	11-17-81	8201	0	< 2			
315416727	1871	PEACEFUL VALLEY	WHITE	11-4-81	8201	2	3 + 1			
308823992	1872	GLENDALE SD	LEE	11-16-81	8201	4	< 2			
309319917	1873	CRISSON'S WATER SYS	LUMPKIN	11-19-81	8201	4	4 + 2	3.1	x	
413721811	1874	COUNTRY HAVEN MHP	TIFT	1-1-82	8201	3	81 + 9	74.0	< 1.0	< 2
405826874	1875	SUNDOWN SD	FORSYTH	10-29-81	8201	1	< 4			
409416000	1876	OAKS NURSING HOME	MACON	11-16-81	8201	1	4 + 2	1.0		
303423263	1877	EVANS #1	COFFEE	11-18-81	8201	1	< 4			
306306266	1878	DRIFTWOOD MHP	GLYNN	11-18-81	8201	1	< 4			
315013216	1879	SANDERSVILLE, CITY	WASHINGTON	11-13-81	8201	1	< 3			
403405426	1880	EVANS #2	COFFEE	11-18-81	8201	1	< 3			
314913146	1881	CANAK	WARREN	11-18-81	8201	6	108 + 8	1.4	< 1.0	75 + 10
408027560	1882	EDGEWOOD MHP	JEFF DAVIS	11-19-81	8201	1	4 + 2	3.4	< 1.0	
310309659	1883	TARRYTOWN, TOWN OF	MONTCOMERY	11-24-81	8201	4	31 + 6	23.8	< 1.0	< 2
305916501	1884	BRITTANY HARBOR WEST	FRANKLIN	11-23-81	8201	4	7 + 2	1.6		
307307341	1885	TUGALOO BAY ESTATES	HART	11-23-81	8201	3	17 + 4	9.1	< 1.0	6 + 1
306306345	1886	SHADY ACRES MHP	GLYNN	11-18-81	8201	1	< 3			
303403405	1887	HILLSIDE TP	COFFEE	11-18-81	8201	1	7 + 3	5.3	< 1.0	
302522176	1888	HUNTER ARMY AIRFIELD	CHATHAM	11-17-81	8201	1	< 3			
311210389	1889	BIG CANOE SD	PICKENS	11-20-81	8201	1	< 2			
306306424	1890	SEA ISLAND	GLYNN	11-18-81	8201	1	< 4			
414523436	1891	UPSON CO PRISON CAMP	UPSON	11-24-81	8201	1	2 + 2			
309509392	1892	COMER, CITY OF	MADISON	11-18-81	8201	1	< 2			
302522112	1893	MATTHEWS MHP	CHATHAM	11-16-81	8201	1	< 3			
303414072	1894	PARKVIEW TP	COFFEE	11-16-81	8201	4	< 3			
309909576	1895	GREENVILLE, CITY OF	MERIWETHER	11-30-81	8201	4	4 + 2	0.2		
315813610	1896	GORDON, CITY OF	WILKINSON	11-24-81	8201	3	10 + 2	1.8	8.3	< 2
307619833	1897	MEADOW HAVEN TP	HOUSTON	11-24-81	8201	1	19 + 3	11.7	2.7	< 2
300800326	1898	WHITE, CITY OF	BARTOW	11-30-81	8201	4	< 2			
303103130	1899	ROYAL COURT MHP	CLAYTON	11-19-81	8201	3	40 + 5	7.0	< 1.0	30 + 4

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.x: INSUFFICIENT SAMPLE FOR ANALYSIS

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	IAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
303117326	1900	DOUBLE E MHP	CLAYTON	11-19-81	8202	1	15 + 3	0.4	1.0	18 + 1
305916501	1901	BRITTANY HARBOR WEST	FRANKLIN	11-23-81	8202	3	6 + 2	1.9		
305916422	1902	BRITTANY HARBOR #2	FRANKLIN	11-23-81	8202	3	42 + 6	11.0	1.4	X
311710551	1903	FOREST LAKE VILL SD	FUTNAM	11-18-81	8202	1	< 3			
303216083	1904	DUFONT	CLINCH	11-24-81	8202	1	< 3			
315713570	1905	RAYLE WATER ASSN	WILKES	11-24-81	8202	1	< 3			
302915846	1906	SEMINOLE MHP	CLARKE	12 -1-81	8202	3	47 + 5	9.2	< 1.0	16 + 1
314812960	1907	MANOR WATER ASSN	WAHE	11-23-81	8202	1	< 4			
305304957	1908	GARFIELD, CITY OF	EMANUEL	11-24-81	8202	1	< 3			
303203146	1909	HOMERVILLE	CLINCH	11-24-81	8202	1	< 4			
411734345	1910	DCGWOOD MHP	FUTNAM	11-20-81	8202	1	3 + 3	0.2		
301500957	1911	STRATHY HALL SD	RYAN	11-27-81	8202	4	< 3			
305321673	1912	LAKE LUCK	EMANUEL	12 -1-81	8202	1	2 + 2			
405308035	1913	RANCH PARK	EMANUEL	12 -1-81	8202	1	< 3			
313411744	1914	LUMBER CITY	TELFAR	12 -2-81	8202	1	3 + 1			
301100658	1915	SHELTERING PINES MHP	BIHE	12 -4-81	8202	1	2 + 1			
308922181	1916	FORT STEWART	LIBERTY	11-30-81	8202	1	< 2			
305321683	1917	DEALVA PARK	EMANUEL	12 -1-81	8202	1	< 3			
312311063	1918	ELLAVILLE, CITY OF	SCHLEY	12-10-81	8202	4	3 + 1			
309609450	1919	BUENA VISTA, CITY OF	MARION	12-11-81	8202	4	5 + 1	2.8		
307024437	1920	ISLAND CREEK	HANCOCK	12-16-81	8202	4	< 2			
000000000	1921	SCENIC SHORES WELL#2		12-16-81	8202	4	11 + 4	0.6	< 1.0	< 2
311722990	1922	TALL TIMBERS WELL#3	FUTNAM	12-16-81	8202	4	2 + 2			
301623553	1923	COUNTRY LAKES SD	BULLOCH	12 -9-81	8202	4	< 2			
311722990	1924	TALL TIMBERS WELL#1	FUTNAM	12-16-81	8202	4	82 + 6	1.2	3.1	41 + 5
000000000	1925	SCENIC SHORES WELL#3		12-16-81	8202	4	6 + 2	0.5		
309409298	1926	MARSHALLVILLE, CITY	MACON	12-14-81	8202	4	10 + 2	4.7	3.3	< 2
301114279	1927	BALCOM'S MHP	BIHE	12-11-81	8202	4	< 2			
000000000	1928	SCENIC SHORES WELL#1		12-16-81	8202	4	< 2			
402904762	1929	REYNOLDS MHP	CLARKE	12 -9-81	8202	4	2 + 2			
408413345	1930	BECK'S MHP	JONES	12 -4-81	8202	1	< 3			
402938196	1931	FAIRFAX HALL	CLARKE	12 -9-81	8202	1	< 2			
310218618	1932	DAVIS MHP	MONROE	12 -9-81	8202	1	20 + 4	X	X	X
301601045	1933	PORTAL CITY	BULLOCH	12-10-81	8202	1	< 3			
301623368	1934	COUNTRY CLUB HILLS	BULLOCH	12 -9-81	8202	1	< 2			
401631164	1935	ZETTEROWER TP	BULLOCH	12 -9-81	8202	1	< 3			
401602771	1936	YOUNGBLOOD MHP	BULLOCH	12-10-81	8202	1	< 3			
313411771	1937	SCOTLAND WATER SYS	TELFAR	12 -8-81	8202	1	3 + 2	2.8		
301601179	1938	FORREST HEIGHTS SD	BULLOCH	12-10-81	8202	1	< 3			
401602276	1939	COACH HOUSE EST SD	BULLOCH	12 -9-81	8202	1	< 3			
315813601	1940	ALLEN TOWN, CITY OF	WILKINSON	11-17-81	8202	4	< 2			
307807814	1941	NICHOLSON, CITY OF	JACKSON	12-16-81	8202	4	2 + 1			
313411762	1942	MILAN, CITY OF	TELFAR	12-22-81	8202	1	5 + 2	2.2		
315313378	1943	GLEWOOD, CITY OF	WHEELER	12-15-81	8202	1	3 + 2	2.1		
405107685	1944	RED GATE MHP	EFFINGHAM	12-15-81	8202	1	< 2			
313411762	1945	MILAN, CITY WELL#2	TELFAR	12-22-81	8202	1	2 + 2			
313411762	1946	MILAN, CITY WELL#3	TELFAR	12-22-81	8202	1	5 + 2	0.4		
312010713	1947	PATTERSON HOSPITAL	RANDOLPH	11-18-81	8202	1	< 3			
415244434	1948	BON AIR APTS	WEBSTER	1 -4-82	8202	1	< 2			
315713589	1949	TIGNALL, CITY OF	WILKES	12-14-81	8202	1	11 + 3	0.4	< 1.0	

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ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
305104769	1950	GUYTON, CITY OF	EFFINGHAM	12-15-81	8202	1	< 2			
303403399	1951	OAK PARK SD	COFFEE	1 -4-82	8202	1	4 + 2	0.8		
000000000	1952	RICCONNUCK KNOLL SD		11-24-81	8202	4	< 2			
312511207	1953	IRON CITY	SEMINOLE	11-12-81	8202	1	< 2			
308408104	1954	GRAY, CITY OF	JONES	12-14-81	8202	4	< 3			
314813121	1955	BAPTIST VILLAGE	WARE	12-15-81	8202	1	3 + 2	2.4		
304704420	1956	BYRON LAKE ESTATES	DOUGHERTY	11 -9-81	8202	1	< 3			
000000000	1957	RICHMOND CO WELL #4		1 -7-82	8202	4	< 2			
000000000	1958	RICHMOND CO WELL #3		1 -6-82	8202	4	< 2			
301500902	1959	RICHMOND HILL, CITY	RYAN	1-14-82	8202	1	< 3			
301300777	1960	HOBOKEN, CITY OF	BRANTLEY	1 -7-82	8202	1	< 4			
309008774	1961	LINCOLNTON WATER SYS	LINCOLN	12-29-81	8202	1	< 3			
307114578	1962	HARALSON CO WATER AU	HARLSON	12-23-81	8202	1	2 + 2			
313211634	1963	COBBTOWN, CITY OF	TATTNAIL	1 -6-82	8202	1	< 3			
313411753	1964	MCRAE, CITY OF	TELFAR	1 -8-82	8202	1	4 + 3	3.1	< 1.0	
311310395	1965	BLACKSHEAR, CITY OF	PIERCE	1-19-82	8202	1	< 4			
305304966	1966	OAK PARK, CITY OF	EMANUEL	1 -6-82	8202	1	6 + 3	4.2	< 1.0	
410328374	1967	WILLOWOOD MHP	MONTGOMERY	1 -6-82	8202	2	9 + 3	5.5	< 1.0	< 2
314712884	1968	SOCIAL CIRCLE	WALTON	12-30-81	8202	1	< 3			
305101768	1969	GUYTON, CITY OF	EFFINGHAM	1-13-81	8202	1	< 3			
312110835	1970	GATE 5 MHP	RICHMOND	1 -6-82	8202	1	< 2			
301113902	1971	EASY LIVING TP	BIBB	1 -5-82	8202	1	2 + 2			
301316826	1972	WHISPERING PINES SD	BRANTLEY	1-14-82	8202	1	2 + 2			
302517084	1973	SANGRENA WOODS SD	CHATHAM	1-12-82	8202	1	< 3			
307807805	1974	JEFFERSON	JACKSON	12-17-81	8202	1	< 2			
306006016	1975	ROSWELL	FULTON	12-18-81	8202	1	< 2			
305705277	1976	FLOYD CO WATER SYS	FLOYD	12-22-81	8202	1	< 3			
305324478	1977	SYCAMORE MOBILE VIL	EMANUEL	1-12-82	8202	1	< 3			
314712875	1978	MONROE WATER SYSTEM	WALTON	12-30-81	8202	1	< 2			
314812988	1979	WAYCROSS, CITY OF	WARE	1 -7-82	8202	1	< 4			
311210343	1980	JASPER	PICKENS	12-16-81	8202	1	< 2			
313211661	1981	MANASSAS, CITY OF	TATTNAIL	1 -2-82	8202	1	< 4			
413232100	1982	BEARD'S CREEK MHP	TATTNAIL	1 -6-82	8202	1	< 3			
313111628	1983	CRAWFORDVILLE, CITY	TALLAHASSEE	1 -6-82	8202	1	< 4			
302502071	1984	BLOOMINGDALE, CITY OF	CHATHAM	1-12-82	8202	1	< 3			
302522945	1985	LIVE OAK MHP	CHATHAM	1-12-82	8202	1	< 3			
405107588	1986	GLEN-LEE MHP	EFFINGHAM	1-13-82	8202	1	< 3			
305705277	1987	FLOYD CO WATER SYS	FLOYD	12-22-81	8202	1	< 3			
310309859	1988	TARRYTOWN, CITY OF	MONTGOMERY	1 -6-82	8202	1	35 + 4	44.0	< 1.0	
405335538	1989	NUNEZ, CITY OF	EMANUEL	1 -6-82	8202	1	< 4			
305304975	1990	STILLMORE, CITY OF	EMANUEL	1-14-82	8202	1	< 4			
311722990	1991	TALL TIMBERS WELL #1	PUTNAM	1-25-82	8202	4	11 + 3	0.7	x	5 + 1
405236534	1992	NORTHWOOD HILLS SD	ELBERT	1-19-82	8202	4	2 + 2			
306706644	1993	GRAYSON, CITY OF	WINNETT	1 -5-82	8202	4	21 + 2	1.0	1.2	
409227963	1994	KERSEY MHP	LOWMYERS	1-25-82	8202	4	< 4			
000000000	1995	ILA, TOWN OF		1-26-82	8202	4	2 + 1			
306907058	1996	SHADY GROVE TP	HALL	1-27-82	8202	4	< 3			
305614735	1997	LONG'S MHP	FAYETTE	12-29-81	8202	1	< 2			
302501917	1998	CARIEN CITY, CITY OF	CHATHAM	1-21-82	8202	1	< 3			
313411735	1999	JACKSONVILLE, CITY OF	TELFAR	1-18-82	8202	1	< 4			

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302515787	2000	DERENNE APTS	CHATHAM	1-21-82	8202	1	< 4			
401602461	2001	WESTCHESTER SD	BULLOCH	1-19-82	8202	1	< 4			
307619833	2002	MEADOW HAVEN TP	HOUSTON	1-20-82	8202	2	22 + 2	14.9	4.0	
301601188	2003	GROVE LAKES SD	BULLOCH	1-19-82	8202	1	< 4			
305605191	2004	FAYETTE MHP	FAYETTE	2 -1-82	8202	1	< 3			
307614722	2005	BAKER'S MH RANCH	HOUSTON	1-19-82	8202	1	< 3			
301601081	2006	GA SOUTHERN COLLEGE	BULLOCH	1-19-82	8202	1	< 4			
401803273	2007	JACKSON LAKE MHP	BUTTE	12-17-82	8202	1	< 3			
407612440	2008	BIRISONG MHP	HOUSTON	1-20-82	8202	1	6 + 1	4.0	1.9	
310710071	2009	ABILE-A-WHILE MHP	NEWTON	1-21-82	8202	1	< 3			
410717468	2010	TRUEL'S MHP	NEWTON	1-21-82	8202	1	< 3			
305805520	2011	HOMESTEADERS MHP	FORSYTH	12-21-81	8202	1	8 + 2	0.8	< 1.0	
302501962	2012	TYBEE ISLAND, CITY OF	CHATHAM	1-20-82	8202	1	< 4			
301521812	2013	HAZEWOOD SD	RYAN	1-19-82	8202	1	< 3			
306806793	2014	DEMOREST, CITY OF	HABERSHAM	1-12-82	8202	1	2 + 2			
314712866	2015	JERSEY, CITY OF	WALTON	12-22-81	8202	3	< 3			
312617053	2016	PINECREST SD	SPALDING	1-20-82	8202	1	16 + 3	1.6	< 1.0	
306906903	2017	FLOWERY BRANCH, CITY	HALL	1 -7-82	8202	1	< 3			
403834695	2018	SHOAL CREEK	COWETA	1-20-82	8202	3	< 2			
410728488	2019	PRICE SD	NEWTON	1-21-82	8202	1	< 3			
307519988	2020	POOLFS MHP	HENRY	1-21-82	8202	1	< 2			
305705268	2021	CAVE SPRING, CITY OF	FLOYD	2 -1-82	8202	1	< 3			
301801456	2022	PINEVIEW SD	BUTTS	12-17-81	8202	1	< 2			
305805672	2023	SHARON SPRINGS SD	FORSYTH	12-21-82	8202	1	< 3			
405236534	2024	NORTHWOOD HILLS	ELBERT	1-27-82	8202	4	2 + 2			
308924947	2025	GUY H WELLS TP	LIBERTY	1-25-82	8202	4	< 3			
412921195	2026	KOINONIA VILLAGE	SUMTER	2 -2-82	8202	4	< 4			
412921195	2027	KOINONIA-Forest PK	SUMTER	2 -2-82	8202	4	< 3			
305905776	2028	CANON, CITY OF	FRANKLIN	1-27-82	8202	1	< 3			
306306318	2029	PROUD ACRES MHP	GLYNN	1-28-82	8202	1	< 3			
406309952	2030	OAK ACRES SD	GLYNN	1-28-82	8202	1	< 4			
303503457	2031	MCULTRIE, CITY OF	COLQUITT	12-22-81	8202	1	< 4			
306306275	2032	BRUID HILLS MHP	GLYNN	1-28-82	8202	1	< 4			
301701291	2033	VIDETTE, CITY OF	BURKE	1-21-82	8202	0	< 3			
312110747	2034	HEHZIBAH, CITY OF	RICHMOND	1-27-82	8202	1	< 2			
305905794	2035	FRANKLIN SPRINGS	FRANKLIN	1-26-82	8202	1	< 3			
301701273	2036	MIDVILLE, CITY OF	BURKE	1-20-82	8202	1	< 4			
311410453	2037	WILLIAMSON, CITY OF	PIKE	1-28-82	8202	1	< 2			
307507503	2038	SWAN LAKE ESTATES	HENRY	1-28-82	8202	1	< 3			
305204899	2039	BOWMAN, CITY OF	ELBERT	1-27-82	8202	1	< 3			
302502512	2040	YACHT&COUNTRY CLUB	CHATHAM	2 -8-82	8202	1	< 3			
310209755	2041	CULLODEN, CITY OF	MCONREE	2 -3-82	8202	1	< 4			
401602373	2042	NEWTON'S MHP	BULLOCH	2 -9-82	8202	1	< 4			
305304993	2043	SWAINSBORO, CITY OF	EMANUEL	2 -2-82	8202	1	< 4			
305304984	2044	SUMMERTOWN, CITY OF	EMANUEL	2 -2-82	8202	1	< 3			
309208820	2045	VALDOSTA, CITY OF	LOWNDEE	2-10-82	8202	1	< 4			
306916124	2046	LAKE LANIER MHP	HALL	2 -8-82	8202	1	< 3			
313812222	2047	PETROSS WATER SYS	TOOMES	2 -9-82	8202	1	< 4			
302521766	2048	WHITFIELD PARK SD	CHATHAM	2 -8-82	8202	1	< 3			
315813656	2049	TOOMESBORO, CITY OF	WILKINSON	2 -4-82	8202	1	< 3			

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202530545	2050	WHITE OAKS SD	CHATHAM	2-8-82	8203	1	< 3			
401602453	2051	WALTER'S MHP	BULLOCH	2-9-82	8203	1	< 4			
313411726	2052	HELENA, CITY OF	TELFAR	2-4-82	8203	1	< 4			
309825089	2053	HIGHLAND PARK SD	MCINTOSH	2-4-82	8203	4	< 4			
301601203	2054	301 TRAILER PARK	BULLOCH	2-8-82	8203	1	< 4			
302502415	2055	SOUTHWINDS SD	CHATHAM	2-8-82	8203	1	< 3			
314712227	2056	JACKSON MHP	WALTON	2-5-82	8203	1	2 + 2			
313812198	2057	VIDALIA, CITY OF	TOCOMES	2-8-82	8203	1	< 4			
303815930	2058	KAND M MHP	COWETA	2-10-82	8203	1	< 3			
313812170	2059	LYONS, CITY OF	TOCOMES	2-9-82	8203	1	< 4			
413837347	2060	CENTER HILL MHP	TOCOMES	2-8-82	8203	1	< 4			
303803935	2061	UTILITIES RES., INC.	COWETA	2-10-82	8203	1	< 4			
301601063	2062	STATESBORO, CITY OF	BULLOCH	2-8-82	8203	1	< 4			
402533342	2063	COFFEE BLUFF WOODS	CHATHAM	2-8-82	8203	1	< 4			
302502354	2064	RIO VISTA SD	CHATHAM	2-8-82	8203	1	< 4			
310309877	2065	MONTGOMERY CORR INST	MONTGOMERY	2-15-82	8203	4	< 4			
308308082	2066	SCOTT WATER&SEWER AU	JOHNSON	2-10-82	8203	1	< 4			
312621151	2067	MASSINGILL TP	SPALDING	3-1-82	8203	1	< 2			
305305002	2068	TWIN CITY, CITY OF	EMANUEL	2-9-82	8203	1	< 4			
303503624	2069	SPENCEFIELD AIRPORT	COLQUITT	1-21-82	8203	1	< 4			
311210361	2070	PICKENS CO WATER SY	PICKENS	2-11-82	8203	4	< 2			
412629023	2071	LOCKWOOD ESTATES	SPALDING	2-16-82	8203	1	< 3			
309016740	2072	CHEROKEE RETREAT WS	LINCOLN	2-10-82	8203	1	< 4			
305605234	2073	ROLLING MEADOWS EST	FAYETTE	2-4-82	8203	1	< 3			
307707729	2074	IRWINVILLE WATERWORK	IRWIN	1-11-82	8203	1	< 3			
305605216	2075	DIX LEE ON ESTATE	FAYETTE	2-4-82	8203	1	< 2			
409027785	2076	PLEASANT VIEW EST	LINCOLN	2-10-82	8203	1	< 4			
307707738	2077	MYSTIC PUBLIC WATER	IRWIN	1-11-82	8203	1	< 4			
303103088	2078	CLAYTON CO WATER AU	CLAYTON	3-3-82	8203	4	< 3			
313721577	2079	SUBURBAN MHP	TIFT	2-2-82	8203	4	7 + 3	7.5	< 1.0	
314813103	2080	DIXIE MHP	WARE	2-17-82	8203	1	< 4			
403833054	2081	PINE HILL ESTATE SD	COWETA	2-22-82	8203	1	< 3			
403505520	2082	HARTSFIELD COMMUNITY	COLQUITT	2-4-82	8203	1	7 + 3	5.2	< 1.0	
403405417	2083	BITTAKER TP	COFFEE	2-16-82	8203	1	3 + 2	3.3	< 1.0	
304025024	2084	RICCONNUCK KNOLL SD	CRISP	2-9-82	8203	5	< 3			
403837126	2085	RUSTICA ESTATE SD	COWETA	2-18-82	8203	1	< 3			
305705338	2086	GEORGIA KRAFT	FLOYD	1-22-82	8203	1	< 3			
301100551	2087	ALPINE VILLAGE MHP	BIIB	2-25-82	8203	1	2 + 2			
302702756	2088	SUMMERVILLE	CHATTOOGA	1-20-82	8203	1	< 3			
310609966	2089	COLUMBUS	MUSCOGEE	1-21-82	8203	1	< 3			
303403335	2090	DOUGLAS, CITY OF	COFFEE	2-15-82	8203	1	2 + 2			
310409883	2091	BOSTWICK, CITY OF	MORGAN	2-18-82	8203	1	< 3			
400700663	2092	AUBURN MHP	BARROW	2-25-82	8203	1	3 + 2	0.5		
303103130	2093	ROYAL COURT	CLAYTON	2-24-82	8203	3	37 + 4	0.3	< 1.0	
305623041	2094	MARNELL MHP	FAYETTE	2-25-82	8203	1	< 3			
303820964	2095	HICKORY HOLLOW SD	COWETA	2-22-82	8203	1	2 + 2			
310309822	2096	ALSTON, CITY OF	MONTGOMERY	2-24-82	8203	1	< 3			
305705310	2097	BURLINGTON IND	FLOYD	1-22-82	8203	1	< 3			
414823905	2098	SMITTY'S MHP	WARE	2-17-82	8203	2	8 + 4	3.6	< 1.0	
306306284	2099	EPWORTH BY THE SEA	GLYNN	2-23-82	8203	1	< 3			

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ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
407812736	2100	PARDUE'S MHP	JACKSON	2-16-82	8203	1	2 + 1			
403826346	2101	MONICA WOODS SD	COWETA	2-18-82	8203	1	< 2			
407827484	2102	COLONY MHP	JACKSON	2-27-82	8203	1	< 2			
303818221	2103	WEDGEWOOD ESTATES	COWETA	2-22-82	8203	1	< 2			
306907012	2104	LAKE SHORE FOREST SD	HALL	2-19-82	8203	1	< 2			
413722072	2105	YANCY TP	TIFT	2-8-82	8203	1	< 3			
407827545	2106	KUNGSWOOD SD	JACKSON	2-23-82	8203	1	< 2			
307807771	2107	BRASELTON, CITY OF	JACKSON	2-23-82	8203	1	8 + 1	0.4		
314813112	2108	LAZY ACRES MHP	WARE	2-17-82	8203	1	2 + 2			
306906985	2109	CAMERON PT WS	HALL	2-19-82	8203	1	2 + 2			
408413354	2110	JULIE B'S TP	JONES	2-26-82	8203	1	2 + 1			
308107933	2111	AVERA, CITY OF	JEFFERSON	3-3-82	8203	1	2 + 1			
410216868	2112	JOHNSON TP	MONROE	2-25-82	8203	1	< 2			
302602704	2113	CUSSETA, CITY OF	CHATTAHOOCHEE	3-3-82	8203	1	< 2			
302621611	2114	CHATTAHOOCHEE CO WS	CHATTAHOOCHEE	3-3-82	8203	1	< 2			
308422706	2115	4 C'S TP	JONES	2-24-82	8203	1	8 + 2	0.3	< 1.0	
410216938	2116	BOLINGREEN NURS HM	MONROE	2-26-82	8203	1	2 + 1			
308925092	2117	OGDEN TP	LIBERTY	3-9-82	8203	4	< 3			
2118	2118	GEORGIA STATE PRISON	QUITMAN	3-7-82	8203	4	< 4			
310309859	2119	TARRYTOWN, TOWN OF	MONTGOMERY	3-15-82	8203	4	2 + 2			
310309859	2120	TARRYTOWN, TOWN OF	MONTGOMERY	3-15-82	8203	4	< 3			
415124434	2121	BON AIR APIS	WAYNE	3-9-82	8203	4	2 + 2			
302001550	2122	WOODBINE, CITY OF	CAMDEN	3-10-82	8203	1	< 4			
302001532	2123	KINGSLAND, CITY OF	CAMDEN	3-11-82	8203	1	< 3			
314812979	2124	WARE COUNTY WATER	WARE	3-9-82	8203	1	3 + 2	0.9		
413721811	2125	COUNTRY HAVEN MHP	TIFT	2-2-82	8203	3	68 + 5	72.0	< 1.0	
308308091	2126	WRIGHTSVILLE, CITY	JOHNSON	3-8-82	8203	6	2 + 2			
313812213	2127	MCNATT FALLS SD	TOOMBS	3-1-82	8203	1	4 + 2	3.3	< 1.0	
413822510	2128	M&T WATERWORKS	TOOMBS	3-9-82	8203	1	8 + 3	6.6	< 1.0	
312611310	2129	SOUTHAMPTON MHP	SPALDING	3-22-82	8203	4	2 + 1			
304704378	2130	ALBANY, CITY OF	DOUGHERTY	3-11-82	8203	4	2 + 1			
304704378	2131	ALBANY, CITY OF	DOUGHERTY	3-17-82	8203	4	2 + 2			
309909673	2132	MERIWETHER CO CORR	MERIWETHER	3-11-82	8203	1	4 + 1	0.7		
300700259	2133	WINDER	BARROW	1-27-82	8203	1	< 2			
311610518	2134	HARTFORD WATER AUTH	FULASKI	3-10-82	8203	1	2 + 2			
308408140	2135	BAKER'S ACRES MHP	JONES	3-9-82	8203	1	< 2			
303603658	2136	HARLEM, CITY OF	COLUMBIA	3-16-82	8203	1	2 + 2			
308107942	2137	BARTON, CITY OF	JEFFERSON	3-10-82	8203	1	< 3			
415124328	2138	WHISPERING PINES MHP	WAYNE	3-18-82	8203	1	< 2			
305104847	2139	BLOOMINGDALE SD	EFFINGHAM	3-17-82	8203	1	< 2			
305104856	2140	GOSHER TERRACE SD	EFFINGHAM	3-19-82	8203	1	< 2			
415124267	2141	LAKE SHORE MHP	WAYNE	3-18-82	8203	1	2 + 2			
306406467	2142	CALHOUN	GORDON	1-26-82	8203	1	< 2			
408113210	2143	BROWN'S TERRACE WS	JEFFERSON	3-17-82	8203	1	< 2			
300700259	2144	WINDER	BARROW	1-27-82	8203	1	< 2			
415124416	2145	REST A WHILE NH	WAYNE	3-18-82	8203	1	< 2			
311117453	2146	PECAN HAVEN MHP	PEACH	3-17-82	8203	1	< 2			
415124300	2147	WATERS MHP	WAYNE	3-18-82	8203	1	< 3			
310818595	2148	DEERWOOD ESTATES	OCONEE	3-11-82	8203	1	6 + 2	0.4		
410817766	2149	PINE HILL SD	OCONEE	3-11-82	8203	1	< 2			

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ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
301000475	2150	ENIGMA, CITY OF	BERRIEN	3-23-82	8203	4	3 + 3	2.5		
302502406	2151	SOUTHSIDE MOBILE EST	CHATHAM	3-22-82	8203	1	< 4			
302514438	2152	LANDINGS	CHATHAM	3-23-82	8203	1	< 4			
302502132	2153	DYCHES MOBILE EST	CHATHAM	3-22-82	8203	1	< 4			
402504144	2154	WHITFIELD MOBILE EST	CHATHAM	3-22-82	8203	1	< 4			
302522963	2155	GROVE POINT MOB EST	CHATHAM	3-22-82	8203	1	< 3			
302502123	2156	COTTONVALE MOB EST	CHATHAM	3-22-82	8203	1	< 4			
301100676	2157	SOUTH GLADE ESTATES	BIEB	3-24-82	8203	4	< 3			
301100676	2158	SOUTH GLADE ESTATES	BIEB	3-24-82	8203	4	< 3			
408937207	2159	LAKEVIEW MHP	LIBERTY	3-24-82	8203	4	< 4			
310109697	2160	BACONTON, CITY OF	MITCHELL	2-25-82	8203	1	< 4			
301601151	2161	LEEFIELD WATER ASN	BULLOCH	3-24-82	8203	1	< 3			
302502321	2162	SKIDAWAY MOB EST	CHATHAM	3-22-82	8203	1	< 4			
301601027	2163	BROOKLET, CITY OF	BULLOCH	3-24-82	8203	1	< 3			

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RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8204

Incomplete

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	IAP DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
300500176	2164	H&H MOBILE HOME VILL	BALDWIN	3-24-82	8204	1	< 3			
314312497	2165	JEFFERSONVILLE, CITY	TWIGGS	3-26-82	8204	1	< 2			
407835070	2166	STEWARTS MHP	JACKSON	3-19-82	8204	3	< 2			
305916422	2167	BRITTANY HARBOR #2	FRANKLIN	3-30-82	8204	3	42 + 4	11.4	< 1.0	
300800441	2168	PLANT BOWEN, GA POWER	BARTOW	3-19-82	8204	1	< 2			
409315790	2169	CAMP GLISSON	LUMPKIN	3-4-82	8204	1	< 2			
301801401	2170	JACKSON	BUTTS	3-5-82	8204	1	< 2			
306806784	2171	CARNELIA	HABERSHAM	3-16-82	8204	1	< 2			
314712866	2172	JERSEY, CITY OF	WALTON	3-25-82	8204	3	4 + 1	0.5		
302902927	2173	ATHENS	CLARKE	3-31-82	8204	1	< 2			
310817565	2174	WOODLANDS SD/OCONEE	OCONEE	3-25-82	8204	1	< 3			
306806775	2175	CLARKESVILLE	HABERSHAM	3-23-82	8204	1	< 2			
302802805	2176	CANTON WATER SYSTEM	CHEROKEE	3-10-82	8204	1	< 2			
307907884	2177	MONTICELLO	JASPER	3-24-82	8204	1	< 2			
306606557	2178	UNION POINT	GREENE	3-30-82	8204	1	< 3			
305916501	2179	BRITTANY HARBOR WEST	FRANKLIN	3-30-82	8204	3	11 + 2	1.0	2.7	
311722990	2180	TALL TIMBERS WELL #1	PUTNAM	4-6-82	8204	4	22 + 3	1.4	2.0	6 + 1
307024437	2181	ISLAND CREEK WELL #5	HANCOCK	4-6-82	8204	4	2 + 2	0.7		
307024437	2182	ISLAND CREEK WELL #6	HANCOCK	4-6-82	8204	4	8 + 2	1.9	< 1.0	
302802850	2183	LAKE ARROWHEAD	CHEROKEE	4-8-82	8204	2	2 + 1			
409933943	2184	BOB ASSOCIATE TP	MERIWETHER	4-7-82	8204	1	< 2			
300200096	2185	WILLACOCHEE	ATKINSON	4-7-82	8204	1	4 + 2	4.4	< 1.0	
300300109	2186	AIMA	BACON	3-31-82	8204	1	2 + 2			
307807814	2187	NICHOLSON	JACKSON	4-6-82	8204	3	4 + 1	0.3		
307824488	2188	HAMILTON MHP #4	JACKSON	4-6-82	8204	5	< 2			
303403326	2189	BROXTON	COFFEE	3-30-82	8204	1	7 + 3	5.4	< 1.0	
315416727	2190	PEACEFUL VALLEY	WHITE	4-1-82	8204	2	4 + 1	2.2		
312110738	2191	PLYTHE	RICHMOND	3-31-82	8204	1	2 + 1			
302401822	2192	FOLKSTON	CHARLTON	4-6-82	8204	1	< 4			
312723154	2193	TOCCOA FALLS MHP	STEPHENS	4-1-82	8204	5	25 + 3	0.9	< 1.0	
307307341	2194	TUGALOC BAY ESTATES	HART	4-1-82	8204	3	16 + 3	1.7	< 1.0	
307807814	2195	NICHOLSON	JACKSON	2-25-82	8204	2	2 + 1			
309609450	2196	BUENA VISTA	MARION	1-20-81	8204	3	6 + 1	2.3		
303123138	2197	CORNITH WOODS	CLAYTON	1-20-81	8204	0	9 + 2	< 0.1	< 1.0	
303123138	2198	-	CLAYTON	8-5-81	8204	0	9 + 2	0.1	< 1.0	
313717743	2199	PINE HILL MHP	TIFT	11-5-81	8204	2	24 + 4	24.0	< 1.0	
305916422	2200	BRITTANY HARBOR #2	FRANKLIN	9-25-81	8204	3	45 + 5	24.0	< 1.0	
313717743	2201	PINE HILL MHP	TIFT	2-2-82	8204	2	24 + 4	10.7	< 1.0	
309409298	2202	MARSHALLVILLE, CITY	MACON	2-22-82	8204	3	10 + 2	5.3	2.3	
406911038	2203	LANIER VALLEY	HALL	4-16-82	8204	1	< 2			
306907049	2204	PONDEROSA S.D.	HALL	4-13-82	8204	5	< 3			
303414072	2205	PARKVIEW VILLAGE MHP	COFFEE	4-6-82	8204	5	< 4			
306907085	2206	MILLIKEN AND CO.	HALL	4-13-82	8204	5	< 4			
306921191	2207	TRAILWOOD ACRES MHP	HALL	4-13-82	8204	5	< 2			
302903027	2208	WE ACRES TP	CLARKE	4-16-82	8204	1	< 2			
302201767	2209	OAKWOOD MHP	CARROLL	4-14-82	8204	1	< 2			
307619333	2210	MEADOW HAVEN TP	HOUSTON	4-14-82	8204	2	18 + 3	11.9	1.6	
307316143	2211	YORK SD	HART	4-1-82	8204	5	< 3			
402203797	2212	COOK'S MHP	CARROLL	4-13-82	8204	1	< 2			
303403344	2213	NICHOLLS, CITY OF	COFFEE	3-30-82	8204	2	4 + 3	2.0		

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RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8204

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ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
305405081	2214	EVANS MEMORIAL HOSP.	EVANS	4-15-82	8204	1	< 3			
306907021	2215	LEISURE LAKE CONDO	HALL	4-16-82	8204	1	< 3			
411919124	2216	SKY VALLEY RESORT	RABUN	4-7-82	8204	1	< 3			
306916674	2217	MOUNTAINVIEW LAKE ES	HALL	4-16-82	8204	1	< 2			
306916869	2218	MERRITT MHP	HALL	4-13-82	8204	1	< 2			
306907094	2219	MILLIKEN & CO (NH)	HALL	4-13-82	8204	5	< 3			
305405045	2220	DAISY, CITY OF	EVANS	4-15-82	8204	1	< 4			
306919974	2221	GIBSON MHP	HALL	4-13-82	8204	1	< 4			
306606586	2222	WHITE PLAINS, CITY OF	GREENE	4-14-82	8204	2	37 + 5	0.6	< 1.0	
300600405	2223	HIDDEN VALLEY SD	BARTOW	4-15-82	8204	2	2 + 2			
305405027	2224	BELLEVILLE, CITY OF	EVANS	4-15-82	8204	1	< 3			
309909600	2225	MANCHESTER, CITY OF	MERIWETHER	4-15-82	8204	4	< 2			
307024437	2226	ISLAND CREEK WELL #6	HANCOCK	4-19-82	8204	4	7 + 3	1.4		
402203982	2227	J C POLK REST HOME	CARROLL	4-13-82	8204	1	< 3			
402203900	2228	ROLLIN HILLS MHP	CARROLL	4-14-82	8204	1	2 + 1			
302915846	2229	SEMINOLE MHP	CLARKE	4-16-82	8204	3	42 + 5	10.3	< 1.0	
306907030	2230	LODGE HAVEN SD	HALL	4-15-82	8204	1	< 3			
302221969	2231	MEMORY SPRINGS MHP	CARROLL	4-13-82	8204	1	< 3			
307024437	2232	ISLAND CREEK	HANCOCK	4-19-82	8204	4	6 + 3	0.9		
309909600	2233	MANCHESTER, CITY OF	MERIWETHER	4-15-82	8204	5	< 2			
302201688	2234	ROAPVILLE, CITY OF	CARROLL	4-13-82	8204	1	< 2			
310309668	2235	UVALDA, CITY OF	MONTGOMERY	4-2-82	8204	1	< 4			
306907003	2236	L. LANIER SAIL C. SD	HALL	4-15-82	8204	2	19 + 3	0.1	< 1.0	
300200087	2237	PEARSON, CITY OF	ATKINSON	4-7-82	8204	1	< 4			
309609450	2238	BUENA VISTA, CITY OF	MARION	2-10-82	8204	3	7 + 2			
301000475	2239	ENIGMA, CITY OF	BERRIEN	2-22-82	8204	2	4 + 2			
313023398	2240	TALBOT CO WATER SYS	TALBOT	2-10-82	8204	2	< 2			
309209027	2241	OAK ST. SD	LOWNDES	2-23-82	8204	1	< 3			
307607591	2242	WARNER ROBINS, CITY	HOUSTON	3-31-82	8204	5	< 2			
306907058	2243	SHADY GROVE TP	HALL	4-16-82	8204	5	< 3			
303403344	2244	NICHOLS, CITY OF	COFFEE	3-30-82	8204	5	< 4			
315013225	2245	TENNILLE, CITY OF	WASHINGTON	4-9-82	8204	1	< 2			
412644216	2246	H M H ENTERPRISES	SPALDING	5-6-82	8204	4	5 + 3			
310309831	2247	CHARLOTTE WATER ASSEN	MONTGOMERY	4-2-82	8204	1	4 + 2			
NC ID	2248	PARKVIEW VILLAGE		10-7-81	8204	5	3 + 2			
400500447	2249	SHALIMAR COVE MHP	BALDWIN	4-8-82	8204	1	< 3			
302517084	2250	SANGRENA WOODS S/D	CHATHAM	4-14-82	8204	5	< 3			
307307341	2251	TUGALOO BAY EST	HART	7-7-81	8204	0	19 + 3		< 1.0	
306318164	2252	WALSH'S MHP	GLYNN	4-12-82	8204	1	< 4			
309909600	2253	MANCHESTER, CITY OF	MERIWETHER	4-15-82	8204	1	< 2			
302915846	2254	SEMINOLE VILLAGE	CLARKE	4-1-82	8204	0	28 + 2			
306907049	2255	PONDEROSA S/D	HALL	4-13-82	8204	4	1 + 1			
315313369	2256	ALAMO	WHEELER	7-28-81	8204	5	50 + 5	46.0	< 1.0	< 2
301500911	2257	PEMBROKE, CITY OF	BRYAN	4-20-82	8204	1	< 2			
309909628	2258	WOODBURY, CITY OF	MERIWETHER	4-15-82	8204	1	< 2			
305104883	2259	WESTWOOD HEIGHTS	EFFINGHAM	4-20-82	8204	1	< 3			
306006025	2260	UNION CITY	FULTON	4-16-82	8204	0	< 2			
305705286	2261	ROME, CITY OF	FLOYD	4-15-82	8204	1	< 2			
302502141	2262	EAST PINES S/D	CHATHAM	4-19-82	8204	1	< 3			
408937207	2263	LAKEVIEW TP	LIBERTY	4-20-82	8204	2	< 4			

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RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8204

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ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
301510477	2264	RINCON, CITY OF	BRYAN	4-20-82	8204	1	< 3			
309909576	2265	GREENVILLE, CITY OF	MERTWEATHER	4-15-82	8204	1	< 2			
302502026	2266	GOLDEN ISLES S/D	CHATHAM	4-19-82	8204	1	< 4			
313712003	2267	TIPTON, CITY OF	TIFT	3-9-82	8204	1	2 + 2			
315813610	2268	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	5 + 1	1.4		
307515269	2269	LITTLE MTN. VILLAGE	HENRY	4-23-82	8204	1	2 + 1			
302024247	2270	KINGS BAY NSB SPRT	CAMDEN	4-1-82	8204	3	< 3			
301113911	2271	B&G GOODALL MILL	BIBB	4-22-82	8204	1	1 + 1			
309208972	2272	GREENVALLEY MHP	LOWNDES	4-1-82	8204	1	< 2			
410116700	2273	SHADY GROVE TP	MITCHELL	3-29-82	8204	1	< 3			
313623576	2274	OAKLANE S/D	THOMAS	3-23-82	8204	0	< 4			
305605225	2275	NEWTON PLANTATION	FAYETTE	4-20-82	8204	1	< 3			
308107979	2276	WADLEY, CITY OF	JEFFERSON	4-21-82	8204	1	< 3			
NO ID	2277	DACULA, CITY OF		4-1-82	8204	0	< 3			
301100603	2278	B&G JONES RD. S/D	BIBB	4-22-82	8204	1	< 3			
300500158	2279	NORTHPOINT/SPITMAN PT	BALDWIN	4-22-82	8204	1	< 3			
315813610	2280	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	5 + 2	1.6		
301100560	2281	B&G GIBSON DR. S/D	BIBB	4-22-82	8204	1	< 3			
315813610	2282	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	6 + 2	2.0	5.7	
301113887	2283	B&G VON REG S/D	BIBB	4-22-82	8204	1	< 3			
315813610	2284	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	5 + 2	1.7	5.4	
315813638	2285	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	3 + 2	1.3	6.0	
315813610	2286	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	6 + 2	1.4	6.6	
301100588	2287	B&G HOOPER HILL S/D1	BIBB	4-22-82	8204	1	< 3			
301100597	2288	B&G HOOPER HILL S/D2	BIBB	4-22-82	8204	1	< 2			
301113896	2289	B&G THORN HILL S/D	BIBB	4-22-82	8204	1	< 2			
306706662	2290	LAWRENCEVILLE, CITY OF	GWINNETT	4-16-82	8204	1	< 2			
306706671	2291	LAWRENCEVILLE, CITY C	GWINNETT	4-16-82	8204	1	< 2			
305304993	2292	SWAINSBORO, CITY OF	EMANUEL	4-21-82	8204	6	< 4			
301100579	2293	B&G GREEN HILL S/D	BIBB	4-22-82	8204	1	< 2			

NOTES: TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER
: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
304004041	2294	CORIELE	CRISP	3-11-82	8205	1	< 4			
309409298	2295	MARSHALLVILLE	MACON	4-12-82	8205	3	8 + 2			
304304185	2296	CLIMAX, CITY OF	DECATUR	4-15-82	8205	1	< 4			
312911490	2297	ANDERSONVILLE	SUMTER	3-16-82	8205	1	2 + 2			
308107960	2298	STAPLETON, CITY OF	JEFFERSON	4-28-82	8205	1	2 + 2			
306706635	2299	DULUTH, CITY OF	GWINNETT	4-23-82	8205	1	< 3			
401439216	2300	FELLOWSHIP HOME	BROOKS	4 -8-82	8205	1	< 4			
306005970	2301	NORTH FULTON COUNTY	FULTON	4-30-82	8205	1	< 3			
306706680	2302	NORCROSS, CITY OF	GWINNETT	4-23-82	8205	1	< 2			
305605155	2303	PAYETTE CO.	PAYETTE	5 -4-82	8205	1	< 3			
305104865	2304	LAKE SIDES FARM S/D	EFFINGHAM	5 -6-82	8205	1	< 3			
408914228	2305	LAKE SIDE TP	LIBERTY	5 -6-82	8205	1	< 3			
414823905	2306	SMITTY'S MHP	WARE	8-24-81	8205	2	4 + 3			
307807780	2307	COMMERCE, CITY OF	JACKSON	4-23-82	8205	1	< 3			
308107968	2308	WRENS, CITY OF	JEFFERSON	5 -6-82	8205	6	< 2			
401101463	2309	MACON TP	BIBB	5 -6-82	8205	1	< 3			
315813638	2310	IVEY, CITY OF	WILKINSON	5 -5-82	8205	1	< 3			
300125298	2311	LAKE TARA MHP	APPLING	5 -5-82	8205	4	< 4			
308107968	2312	WRENS, CITY OF	JEFFERSON	5 -6-82	8205	1	< 3			
307607528	2313	CENTERVILLE, CITY OF	HOUSTON	5-10-82	8205	1	3 + 1			
301601036	2314	STATESBORO, CITY OF	BULLOCH	5-12-82	8205	3	< 4			
315313369	2315	ALAMO, CITY OF	WHEELER	5-13-82	8205	4	29 + 4	22.0	< 1.0	
401501984	2316	GARDNER ESTATES SD	BYRAN	5 -6-82	8205	1	< 4			
314612762	2317	KENSINGTON WATER AU	WALKER	5 -4-82	8205	4	< 4			
301100649	2318	PINE ACRES MH COURT	BIBB	5 -6-82	8205	1	< 3			
415825056	2319	BLACK CAT WATERWORKS	WILKINSON	5 -5-82	8205	1	< 3			
305405054	2320	HAGAN, CITY OF	EVANS	5 -5-82	8205	1	< 2			
305405036	2321	CLAXTON, CITY OF	EVANS	5 -5-82	8205	1	< 2			
301500948	2322	BLACK CREEK FARMS W	BYRAN	5 -6-82	8205	1	< 2			
308908622	2323	HINESVILLE, CITY OF	LIBERTY	5 -6-82	8205	1	< 2			
300100017	2324	BAXLEY, CITY OF	APPLING	5-12-82	8205	1	2 + 2			
315813629	2325	IRWINTON, WELL#2	WILKINSON	5-12-82	8205	4	3 + 1			
303403317	2326	AMERSE, CITY OF	COFFEE	5-11-82	8205	1	< 2			
000000000	2327	COWETA CO PROPOSE WS		5-19-82	8205	4	< 1			
308107951	2328	LOUISVILLE, CITY OF	JEFFERSON	5 -4-82	8205	4	< 1			
306706705	2329	SUGAR HILL, CITY OF	GWINNETT	4-23-82	8205	1	< 2			
307307280	2330	HARTWELL, CITY OF	HART	5 -7-82	8205	1	< 2			
308908686	2331	ISLE OF WIGHT	LIBERTY	5-13-82	8205	1	< 2			
315813629	2332	IRWINTON, HWY 57	WILKINSON	5-12-82	8205	4	4 + 1			
308908701	2333	LAKE GEORGE	LIBERTY	5-13-82	8205	1	< 2			
400100069	2334	BASS SD	APPLING	5-12-82	8205	1	2 + 2			
307607591	2335	WARNER ROBBINS, CITY	HOUSTON	5-17-82	8205	5	1 + 1			
306706653	2336	GWINNETT CO.	GWINNETT	5 -7-82	8205	1	< 2			
406309934	2337	STERLING MHP	GLYNN	5-19-82	8205	1	< 4			
315613528	2338	ABBEVILLE	WILCOX	5-20-82	8205	1	< 3			
309809533	2339	SAPELO GARDENS	MCINTOSH	5-18-82	8205	1	< 4			
308208012	2340	MILLEN, CITY OF	JENKINS	5-12-82	8205	1	< 3			
308208012	2341	MILLEN, CITY OF	JENKINS	5-12-82	8205	0	< 3			
315613537	2342	PINEVIEW	WILCOX	5-20-82	8205	1	< 3			
412921265	2343	KOINONIA FARMS	SUMTER	4-20-82	8205	1	< 3			

NOTES: TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER
: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

Incomplete

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
412921265	2344	KOINONIA FARMS	SUMTER	4-20-82	8205	1	< 3			
309609450	2345	BUENA VISTA, CITY OF	MARION	4-21-82	8205	3	3 + 1			
305605155	2346	FAYETTE CO. W. SYS.	FAYETTE	5-18-82	8205	4	< 2			
000000000	2347	SCENIC SHORES ADD.		5-18-82	8205	4	6 + 3			
000000000	2348	SCENIC SHORES ADD.		5-21-82	8205	4				
313211643	2349	COLLINS, CITY OF	TATTNAIL	5-17-82	8205	4	< 4			
304604344	2350	VIENNA, CITY OF	DOOLY	5-19-82	8205	4	< 4			
305905776	2351	CANON, CITY OF	FRANKLIN	5-13-82	8205	4	< 3			
300500149	2352	MILLEDGEVILLE	BALIWIN	4 -9-82	8205	1	< 2			
305905800	2353	LAVONIA	FRANKLIN	4 -2-82	8205	1	< 2			
300800317	2354	KINGSTON, CITY OF	BARTOW	4-30-82	8205	1	< 4			
400800828	2355	EDWARD'S MHP	BARTOW	4-29-82	8205	1	< 4			
300816800	2356	WOODSONG MHP	BARTOW	4-29-82	8205	1	< 4			
306806872	2357	HABERSHAM MILLS	HABERSHAM	5-11-82	8205	1	< 2			
302301807	2358	RINGGOLD W. SYS.	CATOOSA	4-28-82	8205	1	< 3			
300500194	2359	CENTRAL STATE	BALIWIN	4-29-82	8205	1	< 2			
300800335	2360	HICKORY LOG SCHOOL	BARTOW	4-22-82	8205	1	< 3			
2361										

TABLE 29

EXPOSURE RATES AT NUCLEAR FACILITIES
MEASURED WITH TLD'S

ALABAMA POWER NUCLEAR PLANT FARLEY ... 811229-820521: 143 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0 (+-)	23.5 3.3	6.8 1.0	60.0 8.4
2.0 (+-)	18.1 2.9	5.3 0.8	46.2 7.4
3.0 (+-)	16.2 2.4	4.7 0.7	41.3 6.1
4.0 (+-)	18.1 2.6	5.3 0.8	46.2 6.6
5.0 (+-)	15.2 2.5	4.4 0.7	38.8 6.4
6.0 (+-)	18.1 2.7	5.3 0.8	46.2 6.9
7.0 (+-)	20.4 3.2	5.9 0.9	52.1 8.2
8.0 (+-)	21.6 3.1	6.3 0.9	55.1 7.9
9.0 (+-)	16.5 2.9	4.8 0.8	42.1 7.4
10.0 (+-)	14.3 2.3	4.2 0.7	36.5 5.9
11.0 (+-)	16.3 2.3	4.7 0.7	41.6 5.9
12.0 (+-)	20.4 3.1	5.9 0.9	52.1 7.9
13.0 (+-)	15.4 2.7	4.5 0.8	39.3 6.9
14.0 (+-)	15.4 2.5	4.5 0.7	39.3 6.4
15.0	18.1	5.3	46.7

	(+-)	2.9	0.8	7.4
16.0	16.9	4.9	43.1	
(+-)	2.8	0.8	7.1	
17.0	18.7	5.4	47.7	
(+-)	2.6	0.8	6.6	
18.0	22.2	6.5	56.7	
(+-)	3.4	1.0	8.7	
19.0	18.7	5.4	47.7	
(+-)	2.7	0.8	6.9	
20.0	19.6	5.7	50.0	
(+-)	2.8	0.8	7.1	
21.0	20.4	5.9	52.1	
(+-)	3.1	0.9	7.9	
22.0	20.6	6.0	52.6	
(+-)	2.9	0.8	7.4	
23.0	19.4	5.7	49.5	
(+-)	2.7	0.8	6.9	
24.0	23.2	6.8	59.2	
(+-)	3.4	1.0	8.7	
25.0	15.6	4.5	39.8	
(+-)	3.1	0.9	7.9	
26.0	16.5	4.8	42.1	
(+-)	3.0	0.9	7.7	
NET. AVG.:	18.4	5.4	47.1	
(+-)	5.1	1.5	13.1	

STATE BACKGROUND ... 811229-820521: 143 DAYS

TLD#	MR	MICRR/HR	MR/YR
9.0	20.6	6.0	52.6
(+-)	2.8	0.8	7.1
10.0	26.1	7.6	66.6
(+-)	4.0	1.2	10.1
11.0	18.5	5.4	47.3
(+-)	2.5	0.7	6.5
12.0	16.3	4.7	41.5
(+-)	2.5	0.7	6.5
NET. AVG.:	20.4	5.9	52.0
(+-)	8.4	2.5	21.5

SAVANNAH RIVER PLANT: USDOE ... 820222-820518: 85 DAYS

TLD#	NR	MICRR/HR	MR/YR
1.0 (+-)	8.4 1.8	4.3 0.9	37.6 7.8
2.0 (+-)	9.9 2.1	5.0 1.1	43.9 9.4
3.0 (+-)	11.0 1.9	5.6 1.0	48.9 8.6
4.0 (+-)	12.8 2.8	6.5 1.4	57.0 12.3
6.0 (+-)	10.1 2.1	5.2 1.1	45.1 9.6
7.0 (+-)	9.2 1.7	4.7 0.9	40.8 7.7
9.0 (+-)	9.8 1.4	5.0 0.7	43.4 6.4
11.0 (+-)	7.2 3.5	3.7 1.8	32.1 15.6
12.0 (+-)	9.4 1.8	4.8 0.9	41.8 7.9
13.0 (+-)	8.8 1.4	4.5 0.7	39.3 6.4
14.0 (+-)	9.5 2.0	4.8 1.0	42.1 8.8
15.0 (+-)	7.5 1.9	3.8 1.0	33.4 8.4
17.0 (+-)	7.1 5.9	3.6 3.0	31.6 26.4
18.0 (+-)	8.2 2.7	4.1 1.4	36.3 12.0

19.0	6.5	3.2	28.0
(+-)	1.5	0.8	6.6
20.0	10.4	5.3	46.2
(+-)	7.8	4.0	34.6
21.0	7.6	3.9	33.8
(+-)	2.0	1.0	9.0
22.0	7.0	3.6	31.2
(+-)	2.1	1.1	9.2
23.0	14.3	7.3	63.5
(+-)	5.4	2.7	23.9
24.0	9.0	4.6	40.1
(+-)	3.6	1.8	16.0
25.0	8.9	4.5	39.7
(+-)	3.0	1.5	13.2
NET. AVG.:	9.2	4.7	40.8
(+-)	3.8	2.0	17.1

STATE BACKGROUND ... 820222-820518: 85 DAY

TLD#	MR	MICRR/HR	MR/YR
1.0	16.2	8.0	69.8
(+-)	2.1	1.0	9.0
2.0	6.2	3.1	26.7
(+-)	3.0	1.5	12.7
3.0	10.0	4.9	43.0
(+-)	1.7	0.8	7.1
NET. AVG.:	10.8	5.3	46.5
(+-)	10.1	5.0	43.5



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GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF INTERDISCIPLINARY PROGRAMS
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M E M O R A N D U M

TO: James Hardeman, Program Manager
Environmental Radiation Program
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director *Bernd Kahn*
Environmental Resources Center

DATE: July 21, 1982

SUBJ: Monthly Report of Activities for the State by the Environmental
Radiation Laboratory, June 1982

The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental monitoring at nuclear facilities by DNR staff	Table 1 - 23
Monitoring fallout	Table 24 - 25
Monitoring by DNR staff of Community Water Systems	Table 26
TLD radiation data at nuclear facilities obtained by DNR staff	Table 27

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity attributed to the facility:

Table 6 -- Co-60 and Eu-152 in soil collected near
Dawson Forest

Tables 19, 20, -- H-3 in rainwater, surface water and milk
22, & 23 collected near the Savannah River Plant

All other radionuclides in Tables 1 - 23 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

No radioactivity attributed to recent fallout was detected in rainwater or airborne particles on filters collected in Atlanta, as shown in Tables 24 and 25.

Radioactivity results from community water supplies are compiled in Table 26. These include samples WS reported earlier and samples WS 2361 - 2418 for which processing was begun. The following samples for which radium analyses were completed during the month exceeded 5 pCi/l:

WS 2201	Pine Hill MHP	(see earlier reports also)
WS 2239	Enigma	(see earlier reports also)
WS 2247	Charlotte Water Assn.	
WS 2254	Seminole Village	
WS 2284	Gordon	(see earlier reports also)
WS 2285	Gordon	(see earlier reports also)
WS 2286	Gordon	(see earlier reports also)
WS 2295	Marshallville	(see earlier reports also)
WS 2315	Alamo	(see earlier reports also)

Water supply samples with gross alpha activity levels at or above 5 pCi/l still to be analyzed for radium include: WS 2248, 2268, 2280, 2306, 2347, 2348, 2362, 2371, 2378, 2383, 2386, 2390, 2392, 2393 and 2395.

TLD measurements obtained in the environment of the Dawson Forest Wildlife Management Area and the Georgia Tech Research Reactor are reported in Table 27. The exposure rates at the Dawson Forest ranged from 60 to 271 mR/year. The highest value and possibly a second-highest value of 100 mR/year are above the normal background. The exposure rates at the Georgia Tech Reactor ranged from 49 to 294 mR/yr. The highest value is attributed to man-made radiation.

Table 1

Radioactivity Levels in Quarterly Composite Air Filters
from the Environment of the Hatch Nuclear Plant

<u>Samples No.</u>	<u>Location</u>	<u>Dates, 1982</u>	<u>Volume, m³</u>	<u>Cs-137 concentration, pCi/m³</u>
B580, 592, 609	Plant Hatch	April - June	816	<0.001
B582, 594, 613	Dead River Rd.	April - June	816	<0.001
B584, 590, 611	Substation	April - June	816	<0.002

-
- Notes: 1. Three filters collected successively at the same locations were analyzed by gamma-ray spectrometry. See earlier reports and Table 5 for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 2

Radioactivity Levels in Milk Sample from
the Environment of the Hatch Nuclear Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B602*	Williamson	<5	4	<10	1.7	<200	<0.6

-
- Notes: 1. Sample was collected on June 7, 1982.
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 3

Radioactivity Levels in Grass Samples from the
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>	
		<u>Cs-137</u>	<u>Be-7</u>
B603*	#21	<20	<200
B604*	# 5	120	1,200
B605*	#17	26	750

-
- Notes: 1. Samples were collected on June 21, 1982.
2. No other man-made photon-emitting radionuclides were detected.
Be-7 is formed in nature.

Table 4

Radioactivity Levels in Water Samples from
the Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B606*	Altamaha R. #170	<3	3 ± 2	<200	<0.3
B607*	Altamaha R. #172	<3	5 ± 2	300 ± 200	<0.5

Notes: 1. Samples were collected on June 23, 1982.
2. No man-made photon-emitting radionuclides were detected
(Cs-137 <20 pCi/l).

Table 5

Radioactivity Levels in Air Samples from the
Environment of the Hatch Nuclear Plant

Sample No.	Sample type	Location	Volume, m ³	Radionuclide concentration, pCi/m ³	
				I-131	Gross beta
B608*	Air cartridge	Plant Hatch	272	<0.01	---
B609*	Paper filter	Plant Hatch	272	---	0.008
B610*	Air cartridge	Substation	272	<0.01	---
B611*	Paper filter	Substation	272	---	0.011
B612*	Air cartridge	Dead River Rd.	272	<0.01	---
B613*	Paper filter	Dead River Rd.	272	---	0.015

-
- Notes: 1. Samples were collected on June 28, 1982 after 7-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 6

Radioactivity Levels in Soil Samples from the
Environment of the Dawson Forest

Sample ##	Location	Radionuclide concentration, pCi/kg					
		Eu-152	Co-60	Cs-137	K-40	Ra-226	Ra-228
D235	TLD #5	840	420	180	4,800	600	700
D236	Dirt read outside COA	<100	470	<50	7,300	700	600
D237	5' from corner of hot cell	<100	240	140	10,300	1,700	1,200

-
- Notes: 1. Samples were collected on June 18, 1982.
2. No other man-made photon-emitting radionuclides were detected.

Table 7

Radioactivity Levels in Grass Samples from the
Environment of the Dawson Forest

Sample #	Location	Radionuclide concentration, pCi/kg	
		Cs-137	Be-7
D238	TLD #5	<30	540
D239	Dirt road outside COA	<30	750

-
- Notes: 1. Samples were collected on June 18, 1982.
2. No other man-made photon-emitting radionuclides were detected.
Be-7 is formed in nature.

Table 8

Radioactivity Levels in Water Samples from
the Environment of the Dawson Forest

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
D240	Creek by TLD #2	<3	2 ± 2	<200
D241	Morgan residence, surface water	<3	<3	<200
D242	Etowah River, upstream	<3	<3	<200
D243	Anglin residence, surface water	<3	2 ± 2	<200
D244	Etowah River, downstream	<3	3 ± 2	<200
D245	Morgan residence, groundwater	<3	<3	<200
D246	Anglin residence, groundwater	3 ± 3	3 ± 2	<200

Note: Samples were collected on June 18, 1982.

Table 9

Radioactivity Levels in Quarterly Composite Air Filters
from the Environment in Georgia of the Farley Nuclear Plant

<u>Samples No.</u>	<u>Location</u>	<u>Dates, 1982</u>	<u>Volume, m³</u>	<u>Cs-137 concentration, pCi/m³</u>
F418, 426, & 460	Great Southern Paper Company	April - June	3094	<0.0007
F420, 428, & 462	Blakely water tower	April - June	3064	<0.0007

-
- Notes: 1. Three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports and Table 12 for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 10

Radioactivity Levels in Milk Sample from
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F454*	Silcox	<5	2	<6	1.6	<200	<0.3

-
- Notes: 1. Sample was collected on June 7, 1982.
3. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 11

Radioactivity Levels in Fish Samples from
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Sample Type</u>	<u>Location</u>	<u>Cs-137 Concentration, pCi/kg</u>
F455*	Common bass	FGB-S1-042782	48
F456*	Common bass	FGI-S1-042782	69
F457*	Common carp	FRI-S1-042782	<20
F458*	Common carp	FBB-S1-042782	<20

-
- Notes: 1. Samples were collected by Alabama Power Company staff on April 27, 1982.
2. No other man-made photon-emitting radionuclides were detected.

Table 12

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Farley Nuclear Plant

Sample ##	Sample type	Location	Volume, m ³	Radionuclide concentration, pCi/m ³	
				I-131	Gross beta
F459*	Air Cartridge	Great Southern Paper Company	1058	<0.01	---
F460*	Paper Filter	Great Southern Paper Company	1058	---	0.021
F461*	Air Cartridge	Blakely Water Tower	1000	<0.01	---
F462*	Paper Filter	Blakely Water Tower	1000	---	0.014

-
- Notes: 1. Samples were collected on June 10, 1982 after 7-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 13

Radioactivity Levels in Grass Samples from the
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>	
		<u>Cs-137</u>	<u>Be-7</u>
F463*	FI-1601-M1-061482 Indicator Sample	<30	680
F464*	FB-1218-M1-061482 Control Sample	<30	800

-
- Notes: 1. Samples were collected on June 14, 1982.
2. No other man-made photon-emitting radionuclides were detected.
Be-7 is formed in nature.

Table 14

Radioactivity Levels in Water Samples from
the Environment of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F465*	Downstream at Great Southern Paper Co.	<3	4 ± 2	400 ± 200	<1
F466*	Background from Andrews Dam #WRB-M1-0682	<3	2 ± 2	<200	--
F467*	Indicator from Great Southern Paper Co. #WRI-M1-0682	<3	2 ± 2	200 ± 200	--

-
- Notes: 1. Sample F465 was collected on May 13 - June 14, 1982. Samples 466 - 467 were sampled continuously during June, 1982.
2. No man-made photon-emitting radionuclides were detected (Cs-137 <20 pCi/l).

Table 15

Radioactivity Levels in Soil Samples from the
Environment of the Georgia Tech Research Reactor

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>			
		<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
GT 124	TLD # 5	380	14,200	2,000	1,200
GT 125	TLD # 8	790	14,500	1,800	1,000
GT 126	TLD # 2	130	10,400	1,900	1,500
GT 127	TLD #12	420	10,000	800	900

Notes: 1. Samples were collected on June 11, 1982.
2. No other man-made photon-emitting radionuclides were detected.

Table 16

Radioactivity Levels in Grass Samples from the
Environment of the Georgia Tech Research Reactor

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>	
		<u>Cs-137</u>	<u>Be-7</u>
GT128	TLD # 2	<30	430
GT129	TLD # 5	33	970
GT130	TLD # 8	<30	<200
GT131	TLD #11	<30	<200

-
- Notes: 1. Samples were collected on June 11, 1982.
2. No other man-made photon-emitting radionuclides were detected.
Be-7 is formed in nature.

Table 17

Radioactivity Levels in Water Sample from the
Georgia Tech Research Reactor

Sample ##	Location	Gross alpha, pCi/l	Gross beta, pCi/l	Radioactivity, pCi/l				
				H-3	Mn-54	Co-60	Y-88	Cs-137
GT132	Liquid waste tank	<3	1160 16	37,000 ± 600	76	160	26	790

-
- Notes: 1. Sample was collected on June 14, 1982.
2. No other man-made photon-emitting radionuclides were detected.

Table 18

Radioactivity Levels in Quarterly Composite Air Filters
from the Environment in Georgia of the Savannah River Plant

<u>Samples No.</u>	<u>Location</u>	<u>Dates, 1982</u>	<u>Volume, m³</u>	<u>Cs-137 concentration, pCi/m³</u>
SR606, 673, & 692	Plant Vogtle	April - June	1,428	<0.001
SR608	Augusta	April	378	<0.003
SR604, 670, & 690	Girard	April - June	885	<0.002

-
- Notes: 1. Three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports and Table 21 for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.
3. The Augusta filter for May, 1982 was lost in transit. The Augusta sampler did not function properly during June.

Table 19

Radioactivity Levels in Water Sample from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR667	Savannah R. down- stream at Hwy. 301	<2	<3	3,100 ± 200	<0.4

-
- Notes: 1. Sample was collected on June 10, 1982.
2. No man-made photon-emitting radionuclides were detected (Cs-137 <20 pCi/l).

Table 20

Radioactivity Levels in Water Sample from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	Gross alpha, <u>pCi/l</u>	Gross beta, <u>pCi/l</u>	H-3, <u>pCi/l</u>	I-131, <u>pCi/l</u>
SR668*	Port Wentworth I & D Water Supply	<3	<4	3,600 ± 200	<0.4

Notes: 1. Sample was collected on June 2 - 8, 1982.
2. No man-made photon-emitting radionuclides were detected (Cs-137 <20 pCi/l).

Table 21

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Savannah River Plant

Sample No.	Sample type	Location	Volume, m ³	Radionuclide concentration, pCi/m ³	
				I-131	Gross beta
SR669*	Air cartridge	Girard	320	<0.02	---
SR670*	Paper filter	Girard	320	--	0.016
SR671*	Air cartridge	Youth Development Center, Augusta	466	<0.02	---
SR672*	Air cartridge	Plant Vogtle	612	<0.01	---
SR673*	Paper filter	Plant Vogtle	612	--	0.011
SR689*	Air cartridge	Girard	336	<0.01	---
SR690*	Paper filter	Girard	336	--	0.007
SR691*	Air cartridge	Plant Vogtle	376	<0.02	---
SR692*	Paper filter	Plant Vogtle	376	--	0.008

-
- Notes: 1. Samples SR669-673 were collected on June 10, 1982 after 43-day sampling. Samples SR689-692 were collected on July 8, 1982 after 28-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.
3. Volume for samples SR669 and SR670 are estimated.
4. Paper filter for SR671 was lost in transit.

Table 22

Radioactivity Levels in Milk Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR674*	Boyce	<5	2	<10	1.4	300 ± 200	Note 3
SR675*	McElmurray	<5	2	< 6	1.6	800 ± 200	<0.9
SR676*	Dixon	<5	3	< 6	1.7	1,000 ± 200	<0.4

-
- Notes: 1. Samples were collected on June 17, 1982.
 2. No other radionuclides were detected (Ba-140 <20 pCi/l).
 3. Sample SR674 was too coagulated for I-131 analyses.

Table 23

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR677*	R-2 Savannah R.	<3	2 ± 2	<200	<0.3
SR678*	R-10 Savannah R.	<3	2 ± 2	$3,200 \pm 200$	<0.5
SR679*	Waynesboro rainwater	---	---	<200	---
SR680*	Perkins rainwater	---	---	<200	---
SR681*	Augusta rainwater	---	---	<200	---
SR682*	Hwy. 301 rainwater	---	---	<200	---
SR683*	S. Richmond rainwater	---	---	<200	---
SR684*	Waynesboro rainwater	---	---	<200	---
SR685*	Perkins rainwater	---	---	<200	---
SR686*	Augusta rainwater	---	---	400 ± 200	---
SR687*	Hwy. 301 rainwater	---	---	500 ± 200	---
SR688*	S. Richmond rainwater	---	---	<200	---

-
- Notes: 1. Samples SR677 - 678 were collected on June 15, 1982. Samples SR679 - 683 were collected May 20 - June 3, 1982. Samples SR684 - 688 were collected June 3 - 17, 1982.
2. No man-made photon-emitting radionuclides were detected in samples SR677 and SR678 (Cs-137 <20 pCi/l).

Table 24

Fallout from Atmospheric Nuclear Tests
in Rainwater

<u>Sample ##</u>	<u>Sampling date, 1982</u>	<u>Location</u>	<u>Gross beta, pCi/l</u>	<u>Cs-137 concentration, pCi/l</u>
S1902	June 1	State building	6 ± 2	<20

Note: A 500-ml sample was analyzed for man-made photon-emitting radionuclides. None were found.

Table 25

Fallout from Atmospheric Nuclear Tests of
Airborne Particles - State Building Samples

Sample No.	Sample date, 1982	Volume, m ³	Gross beta, pCi/m ³	Radionuclide concentration, fCi/m ³						
				Be-7	Zr-95	Nb-95	Ru-103	Cs-137	Ce-141	Ce-144
S1903	June 1 - 15	12,096	0.01	69	<1	<1	<1	<1	<1	<1
S1904	June 15 - 30	27,360	0.02	71	<1	<1	<1	<1	<1	<1

-
- Notes: 1. Gross beta activity was measured 4 days after collection. Be-7 is of natural origin. Among the shorter-lived fission products that were searched for are I-131 and Ba-140.
2. The filters are 12.5-cm-dia. charcoal-impregnated pads.

June Table 26
RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8202

Complete

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
305104769	1950	GUYTON, CITY OF	EFFINGHAM	12-15-81	8202	1	< 2			
303403399	1951	OAK PARK SD	COFFEE	1 -4-82	8202	1	4 + 2	0.8		
000000000	1952	RICCONNUCK KNOLL SD		11-24-81	8202	4	< 2			
312511207	1953	IRON CITY	SEMINOLE	11-12-81	8202	1	< 2			
308408104	1954	GRAY, CITY OF	JONES	12-14-81	8202	4	< 3			
314813121	1955	BAPTIST VILLAGE	WARE	12-15-81	8202	1	3 + 2	2.4		
304704420	1956	BYRON LAKE ESTATES	DOUGHERTY	11 -9-81	8202	1	< 3			
000000000	1957	RICHMOND CO WELL #4		1 -7-82	8202	4	< 2			
000000000	1958	RICHMOND CO WELL #3		1 -6-82	8202	4	< 2			
301500902	1959	RICHMOND HILL, CITY	BRYAN	1-14-82	8202	1	< 3			
301300777	1960	HOBOKEN, CITY OF	BRANTLEY	1 -7-82	8202	1	< 4			
309008774	1961	LINCOLN TON WATER SYS	LINCOLN	12-29-81	8202	1	< 3			
307114578	1962	HARALSON CO WATER AU	HARLSON	12-23-81	8202	1	2 + 2			
313211634	1963	COBBTOWN, CITY OF	TATTNAIL	1 -6-82	8202	1	< 3			
313411753	1964	MCRAE, CITY OF	TELFAR	1 -8-82	8202	1	4 + 3	3.1	< 1.0	
311310395	1965	BLACKSHEAR, CITY OF	PIERCE	1-19-82	8202	1	< 4			
305304966	1966	OAK PARK, CITY OF	EMANUEL	1 -6-82	8202	1	6 + 3	4.2	< 1.0	
410328374	1967	WILDWOOD MHP	MONTGOMERY	1 -6-82	8202	2	9 + 3	5.5	< 1.0	< 2
314712884	1968	SOCIAL CIRCLE	WALTON	12-30-81	8202	1	< 3			
305101768	1969	GUYTON, CITY OF	EFFINGHAM	1-13-81	8202	1	< 3			
312110835	1970	GATE 5 MHP	RICHMOND	1 -6-82	8202	1	< 2			
301113902	1971	EASY LIVING TP	BIBB	1 -5-82	8202	1	2 + 2			
301316826	1972	WHISPERING PINES SD	BRANTLEY	1-14-82	8202	1	2 + 2			
302517084	1973	SANGRENA WOODS SD	CHATHAM	1-12-82	8202	1	< 3			
307807805	1974	JEFFERSON	JACKSON	12-17-81	8202	1	< 2			
306006016	1975	ROSWELL	FULTON	12-18-81	8202	1	< 2			
305705277	1976	FLOYD CO WATER SYS	FLOYD	12-22-81	8202	1	< 3			
305324478	1977	SYCAMORE MOBILE VIL	EMANUEL	1-12-82	8202	1	< 3			
314712875	1978	MONROE WATER SYSTEM	WALTON	12-30-81	8202	1	< 2			
314812988	1979	WAYCROSS, CITY OF	WARE	1 -7-82	8202	1	< 4			
311210343	1980	JASPER	PICKENS	12-16-81	8202	1	< 2			
313211661	1981	MANASSAS, CITY OF	TATTNAIL	1 -2-82	8202	1	< 4			
413232100	1982	BEARD'S CREEK MHP	TATTNAIL	1 -6-82	8202	1	< 3			
313111628	1983	CRAWFORDVILLE, CITY	TALLAHERO	1 -6-82	8202	1	< 4			
302502071	1984	BLOOMINGDALE, CITY OF	CHATHAM	1-12-82	8202	1	< 3			
302522945	1985	LIVE OAK MHP	CHATHAM	1-12-82	8202	1	< 3			
405107588	1986	GLEN-LEE MHP	EFFINGHAM	1-13-82	8202	1	< 3			
305705277	1987	FLOYD CO WATER SYS	FLOYD	12-22-81	8202	1	< 3			
310309859	1988	TARRYTOWN, CITY OF	MONTGOMERY	1 -6-82	8202	1	35 + 4	44.0	< 1.0	< 2
405335538	1989	NUNEZ, CITY OF	EMANUEL	1 -6-82	8202	1	< 4			
305304975	1990	STILLMORE, CITY OF	EMANUEL	1-14-82	8202	1	< 4			
311722990	1991	TALL TIMBERS WELL #1	PUTNAM	1-25-82	8202	4	11 + 3	0.7		5 + 1
405236534	1992	NORTHWOOD HILLS SD	ELBERT	1-19-82	8202	4	2 + 2			
306706644	1993	GRAYSON, CITY OF	GWINNETT	1 -5-82	8202	4	21 + 2	1.0	1.2	x
403227983	1994	KERSEY MHP	LOWNDES	1-25-82	8202	4	< 4			
000000000	1995	ILA, TOWN OF		1-26-82	8202	4	2 + 1			
306907058	1996	SHADY GROVE TP	HALL	1-27-82	8202	4	< 3			
305614735	1997	LONG'S MHP	FAYETTE	12-29-81	8202	1	< 2			
302501917	1998	GARDEN CITY, CITY OF	CHATHAM	1-21-82	8202	1	< 3			
313411735	1999	JACKSONVILLE, CITY OF	TELFAR	1-18-82	8202	1	< 4			

NOTES: TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER
: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

x: Insufficient sample for analysis

June Table 26
RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8202

Complete

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
303117326	1900	DOUBLE E MHP	CLAYTON	11-19-81	8202	1	15 + 3	0.4	1.0	18 + 1
305916501	1901	BRITTANY HARBOR WEST	FRANKLIN	11-23-81	8202	3	6 + 2	1.9		
305916422	1902	BRITTANY HARBOR #2	FRANKLIN	11-23-81	8202	3	42 + 6	11.0	1.4	X
311710551	1903	FOREST LAKE VILL SD	PUTNAM	11-18-81	8202	1	< 3			
303216083	1904	DUFONT	CLINCH	11-24-81	8202	1	< 3			
315713570	1905	RAYLE WATER ASSN	WILKES	11-24-81	8202	1	< 3			
302915846	1906	SEMINOLE MHP	CLARKE	12 -1-81	8202	3	47 + 5	9.2	< 1.0	16 + 1
314812960	1907	MANOR WATER ASSN	WARE	11-23-81	8202	1	< 4			
305304957	1908	GARFIELD, CITY OF	EMANUEL	11-24-81	8202	1	< 3			
303203146	1909	HOMERVILLE	CLINCH	11-24-81	8202	1	< 4			
411734345	1910	DOGWOOD MHP	PUTNAM	11-20-81	8202	1	3 + 3	0.2		
301500957	1911	STRATHY HALL SD	RYAN	11-27-81	8202	4	< 3			
305321673	1912	LAKE LUCK	EMANUEL	12 -1-81	8202	1	2 + 2			
405308035	1913	RANCH PARK	EMANUEL	12 -1-81	8202	1	< 3			
313411744	1914	LUMBER CITY	TELFAIR	12 -2-81	8202	1	3 + 1			
301100658	1915	SHELTERING PINES MHP	BIBB	12 -4-81	8202	1	2 + 1			
308922181	1916	FORT STEWART	LIBERTY	11-30-81	8202	1	< 2			
305321683	1917	DEALVA PARK	EMANUEL	12 -1-81	8202	1	< 3			
312311063	1918	ELLAVILLE, CITY OF	SCHLEY	12-10-81	8202	4	3 + 1			
309609450	1919	BUENA VISTA, CITY OF	MARION	12-11-81	8202	4	5 + 1	2.8		
307024437	1920	ISLAND CREEK	HANCOCK	12-16-81	8202	4	< 2			
000000000	1921	SCENIC SHORES WELL#2		12-16-81	8202	4	11 + 4	0.6	< 1.0	< 2
311722990	1922	TALL TIMBERS WELL#3	PUTNAM	12-16-81	8202	4	2 + 2			
301623553	1923	COUNTRY LAKES SD	BULLOCH	12 -9-81	8202	4	< 2			
311722990	1924	TALL TIMBERS WELL#1	PUTNAM	12-16-81	8202	4	82 + 6	1.2	3.1	41 + 5
000000000	1925	SCENIC SHORES WELL#3		12-16-81	8202	4	6 + 2	0.5		
309409298	1926	MARSHALLVILLE, CITY	MACON	12-14-81	8202	4	10 + 2	4.7	3.3	< 2
301114279	1927	BALCON'S MHP	BIBB	12-11-81	8202	4	< 2			
000000000	1928	SCENIC SHORES WELL#1		12-16-81	8202	4	< 2			
402904762	1929	REYNOLDS MHP	CLARKE	12 -9-81	8202	4	2 + 2			
408413345	1930	BECK'S MHP	JONES	12 -4-81	8202	1	< 3			
402938196	1931	FAIRFAX HALL	CLARKE	12 -9-81	8202	1	< 2			
310218618	1932	DAVIS MHP	MONROE	12 -9-81	8202	1	20 + 4			
301601045	1933	PORTAL CITY	BULLOCH	12-10-81	8202	1	< 3			
301623368	1934	COUNTRY CLUB HILLS	BULLOCH	12 -9-81	8202	1	< 2			
401631164	1935	ZETTEROWER TP	BULLOCH	12 -9-81	8202	1	< 3			
401602771	1936	YOUNGBLOOD MHP	BULLOCH	12-10-81	8202	1	< 3			
313411771	1937	SCOTLAND WATER SYS	TELFAIR	12 -8-81	8202	1	3 + 2	2.8		
301601179	1938	FORREST HEIGHTS SD	BULLOCH	12-10-81	8202	1	< 3			
401602276	1939	COACH HOUSE EST SD	BULLOCH	12 -9-81	8202	1	< 3			
315813601	1940	ALLENTOWN, CITY OF	WILKINSON	11-17-81	8202	4	< 2			
307807814	1941	NICHOLSON, CITY OF	JACKSON	12-16-81	8202	4	2 + 1			
313411762	1942	MILAN, CITY OF	TELFAIR	12-22-81	8202	1	5 + 2	2.2		
315313378	1943	GLENWOOD, CITY OF	WHEELER	12-15-81	8202	1	3 + 2	2.1		
405107685	1944	RED GATE MHP	EFFINGHAM	12-15-81	8202	1	< 2			
313411762	1945	MILAN, CITY WELL#2	TELFAIR	12-22-81	8202	1	2 + 2			
313411762	1946	MILAN, CITY WELL#3	TELFAIR	12-22-81	8202	1	5 + 2	0.4		
312010713	1947	PATTERSON HOSPITAL	RANDOLPH	11-18-81	8202	1	< 3			
415244434	1948	BON AIR APTS	WEBSTER	1 -4-82	8202	1	< 2			
315713589	1949	TIGNALL, CITY OF	WILKES	12-14-81	8202	1	11 + 3	0.4	< 1.0	8 + 1

NOTES: TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER
: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

x: Insufficient sample for analysis

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
302515787	2000	DERENNE APTS	CHATHAM	1-21-82	8202	1	< 4			
401602461	2001	WEATCHESTER S/D	BULLOCH	1-19-82	8202	1	< 4			
307619633	2002	MEADOW HAVEN TP	HOUSTON	1-20-82	8202	2	22 + 2	14.9	4.0	
301601188	2003	GROVE LAKES S/D	BULLOCH	1-19-82	8202	1	< 4			
305605191	2004	FAYETTE MHP	FAYETTE	2 -1-82	8202	1	< 3			
307614722	2005	BAKERS MH RANCH	HOUSTON	1-19-82	8202	1	< 3			
301601081	2006	GA. SOUTHERN COLLEGE	BULLOCH	1-19-82	8202	1	< 4			
401803273	2007	JACKSON LAKE MHP	BUTTS	12-17-81	8202	1	< 3			
407612440	2008	BIRDSONG MHP	HOUSTON	1-20-82	8202	1	6 + 1	4.0	1.9	
310710071	2009	ABIDE-A-WHILE MHP	NEWTON	1-21-82	8202	1	< 3			
410717468	2010	TRUELS MHP	NEWTON	1-21-82	8202	1	< 3			
305805520	2011	HOMESTEADERS MHP	FORSYTH	12-21-81	8202	1	8 + 2	0.8	< 1.0	
302501962	2012	TYBEE ISLAND, CITY OF	CHATHAM	1-20-82	8202	1	< 4			
301521812	2013	HAZELWOOD S/D	BRYAN	1-19-82	8202	1	< 3			
306806793	2014	DEMOREST, CITY OF	HABERSHAM	1-12-82	8202	1	2 + 2			
314712866	2015	JERSEY, CITY OF	WALTON	12-22-81	8202	3	< 3			
312617053	2016	PINECREST S/D	SPALDING	1-20-82	8202	1	16 + 3	1.6	< 1.0	6 + 1
306906903	2017	FLOWERY BRANCH, CITY	HALL	1 -7-82	8202	1	< 3			
403834695	2018	SHOAL CREEK	COWETA	1-20-82	8202	3	< 2			
410728488	2019	PRICE S/D	NEWTON	1-21-82	8202	1	< 3			
307519988	2020	POOLES MHP	HENRY	1-21-82	8202	1	< 2			
305705268	2021	CAVE SPRING, CITY OF	FLOYD	2 -1-82	8202	1	< 3			
301801456	2022	PINEVIEW S/D	BUTTS	12-17-81	8202	1	< 2			
305805672	2023	SHARON SPRINGS S/D	FORSYTH	12-21-81	8202	1	< 3			
405236534	2024	NORTHWOOD HILLS	ELBERT	1-27-82	8202	4	2 + 2			
309924947	2025	GUY H. WELLS TP	MERIWETHER	1-25-82	8202	4	< 3			
412921195	2026	KOINONIA VILLAGE	SUMTER	2 -2-82	8202	4	< 4			
412921195	2027	KOINONIA-FOREST PARK	SUMTER	2 -2-82	8202	4	< 3			
305905776	2028	CANON, CITY OF	FRANKLIN	1-27-82	8202	1	< 3			
306306318	2029	PROUD ACRES MHP	GLYNN	1-28-82	8202	1	< 3			
406309952	2030	OAK ACRES S/D	GLYNN	1-28-82	8202	1	< 4			
303503457	2031	MOULTRIE, CITY OF	COLQUITT	12-22-81	8202	1	< 4			
306306275	2032	DRUID OAKS MHP	GLYNN	1-28-82	8202	1	< 4			
301701291	2033	VIDETTE, CITY OF	BURKE	1-21-82	8202	1	< 3			
312110747	2034	HEPHZIBAH, CITY OF	RICHMOND	1-27-82	8202	1	< 2			
305905794	2035	FRANKLIN SPRINGS, CIT	FRANKLIN	1-26-82	8202	1	< 3			
301701273	2036	MIDVILLE, CITY OF	BURKE	1-20-82	8202	1	< 4			
311410453	2037	WILLIAMSON, CITY OF	PIKE	1-28-82	8202	1	< 2			
307507503	2038	SWAN LAKE ESTATES	HENRY	1-28-82	8202	1	< 3			
305204899	2039	BOWMAN, CITY OF	ELBERT	1-27-82	8202	1	< 3			
302502512	2040	YACHT & COUNTRY CLUB	CHATHAM	2 -8-82	8202	1	< 3			
310209755	2041	CULLODEN, CITY OF	MONROE	2 -3-82	8202	1	< 4			
401602373	2042	NEWTON'S MHP	BULLOCH	2 -9-82	8202	1	< 4			
305304993	2043	SWAINSBORO, CITY OF	EMANUEL	2 -2-82	8202	1	< 4			
305304984	2044	SUMMERTOWN, CITY OF	EMANUEL	2 -2-82	8202	1	< 3			
309208820	2045	VALDOSTA, CITY OF	LOWNDES	2-10-82	8202	1	< 4			
306916124	2046	LAKE LANIER MHP	HALL	2 -8-82	8202	1	< 3			
313812222	2047	PETROSS WATER SYSTEM	TOOMES	2 -9-82	8202	1	< 4			
302521766	2048	WHITFIELD PARK S/D	CHATHAM	2 -8-82	8202	1	< 3			
315813656	2049	TOOMSBORO, CITY OF	WILKINSON	2 -4-82	8202	1	< 3			

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ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
202530545	2050	WHITE OAKS SD	CHATHAM	2-8-82	8203	1	< 3			
401602453	2051	WALTER'S MHP	BULLOCH	2-9-82	8203	1	< 4			
313411726	2052	HELENA, CITY OF	TELEAIR	2-4-82	8203	1	< 4			
309825089	2053	HIGHLAND PARK SD	MCINTOSH	2-4-82	8203	4	< 4			
301601203	2054	301 TRAILER PARK	BULLOCH	2-8-82	8203	1	< 4			
302502415	2055	SOUTHWINDS SD	CHATHAM	2-8-82	8203	1	< 3			
314712927	2056	JACKSON MHP	WALTON	2-5-82	8203	1	2 + 2			
313812198	2057	VIDALIA, CITY OF	TOOMES	2-8-82	8203	1	< 4			
303815930	2058	KAND M MHP	COWETA	2-10-82	8203	1	< 3			
313812170	2059	LYONS, CITY OF	TOOMES	2-9-82	8203	1	< 4			
413837347	2060	CENTER HILL MHP	TOOMES	2-8-82	8203	1	< 4			
303803935	2061	UTILITIES RES., INC.	COWETA	2-10-82	8203	1	< 4			
301601063	2062	STATESBORO, CITY OF	BULLOCH	2-8-82	8203	1	< 4			
402533342	2063	COFFEE BLUFF WOODS	CHATHAM	2-8-82	8203	1	< 4			
302502354	2064	RIO VISTA SD	CHATHAM	2-8-82	8203	1	< 4			
310309877	2065	MONTGOMERY CORR INST	MONTGOMERY	2-15-82	8203	4	< 4			
308308082	2066	SCOTT WATER&SEWER AU	JOHNSON	2-10-82	8203	1	< 4			
312621151	2067	MASSINGILL TP	SPALDING	3-1-82	8203	1	< 2			
305305002	2068	TWIN CITY, CITY OF	EMANUEL	2-9-82	8203	1	< 4			
303503624	2069	SPENCEFIELD AIRPORT	COLQUITT	1-21-82	8203	1	< 4			
311210361	2070	PICKENS CO WATER SY	PICKENS	2-11-82	8203	4	< 2			
412629023	2071	LOCKWOOD ESTATES	SPALDING	2-16-82	8203	1	< 3			
309016740	2072	CHEROKEE RETREAT WS	LINCOLN	2-10-82	8203	1	< 4			
305605234	2073	ROLLING MEADOWS EST	FAYETTE	2-4-82	8203	1	< 3			
307707729	2074	IRWINVILLE WATERWORK	IRWIN	1-11-82	8203	1	< 3			
305605216	2075	DIX LEE ON ESTATE	FAYETTE	2-4-82	8203	1	< 2			
409027785	2076	PLEASANT VIEW EST	LINCOLN	2-10-82	8203	1	< 4			
307707738	2077	MYSTIC PUBLIC WATER	IRWIN	1-11-82	8203	1	< 4			
303103088	2078	CLAYTON CO WATER AU	CLAYTON	3-3-82	8203	4	< 3			
313721577	2079	SUBURBAN MHP	TIFT	2-2-82	8203	4	7 + 3	7.5	< 1.0	
314813103	2080	DIXIE MHP	WARE	2-17-82	8203	1	< 4			
403833054	2081	PINE HILL ESTATE SD	COWETA	2-22-82	8203	1	< 3			
403505520	2082	HARTSFIELD COMMUNITY	COLQUITT	2-4-82	8203	1	7 + 3	5.2	< 1.0	
403405417	2083	BITTAKER TP	COFFEE	2-16-82	8203	1	3 + 2	3.3	< 1.0	
304025024	2084	RICCONNUCK KNOLL SD	CRISP	2-9-82	8203	5	< 3			
403837126	2085	RUSTICA ESTATE SD	COWETA	2-18-82	8203	1	< 3			
305705338	2086	GEORGIA KRAFT	FLOYD	1-22-82	8203	1	< 3			
301100551	2087	ALPINE VILLAGE MHP	BIBB	2-25-82	8203	1	2 + 2			
302702756	2088	SUMMERVILLE	CHATTOOGA	1-20-82	8203	1	< 3			
310609966	2089	COLUMBUS	MUSCOGEE	1-21-82	8203	1	< 3			
303403335	2090	DOUGLAS, CITY OF	COFFEE	2-15-82	8203	1	2 + 2			
310409883	2091	BOSTWICK, CITY OF	MORGAN	2-18-82	8203	1	< 3			
400700663	2092	AUBURN MHP	BARROW	2-25-82	8203	1	3 + 2	0.5		
303103130	2093	ROYAL COURT	CLAYTON	2-24-82	8203	3	37 + 4	0.3	< 1.0	14 + 2
305623041	2094	MARNELL MHP	FAYETTE	2-25-82	8203	1	< 3			
303820964	2095	HICKORY HOLLOW SD	COWETA	2-22-82	8203	1	2 + 2			
310309822	2096	ALSTON, CITY OF	MONTGOMERY	2-24-82	8203	1	< 3			
305705310	2097	BURLINGTON IND	FLOYD	1-22-82	8203	1	< 3			
414823905	2098	SMITTY'S MHP	WARE	2-17-82	8203	2	8 + 4	3.6	< 1.0	< 2
306306284	2099	EPWORTH BY THE SEA	GLYNN	2-23-82	8203	1	< 3			

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ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
407812736	2100	PARDUE'S MHP	JACKSON	2-16-82	8203	1	2 + 1			
403826346	2101	MONICA WOODS SD	COWETA	2-18-82	8203	1	< 2			
407827484	2102	COLONY MHP	JACKSON	2-27-82	8203	1	< 2			
303818221	2103	WEDGEWOOD ESTATES	COWETA	2-22-82	8203	1	< 2			
306907012	2104	LAKESHORE FOREST SD	HALL	2-19-82	8203	1	< 2			
413722072	2105	YANCY TP	TIFT	2 -8-82	8203	1	< 3			
407827545	2106	KUNGSWOOD SD	JACKSON	2-23-82	8203	1	< 2			
307807771	2107	BRASELTON, CITY OF	JACKSON	2-23-82	8203	1	8 + 1	0.4		
314813112	2108	LAZY ACRES MHP	WARE	2-17-82	8203	1	2 + 2			
306906985	2109	CAMERON PT WS	HALL	2-19-82	8203	1	2 + 2			
408413354	2110	JULIE B'S TP	JONES	2-26-82	8203	1	2 + 1			
308107953	2111	AVERA, CITY OF	JEFFERSON	3 -3-82	8203	1	2 + 1			
410216868	2112	JOHNSON TP	MONROE	2-25-82	8203	1	< 2			
302602704	2113	CUSSETA, CITY OF	CHATTAHOOCHEE	3 -3-82	8203	1	< 2			
302621611	2114	CHATTAHOOCHEE CO WS	CHATTAHOOCHEE	3 -3-82	8203	1	< 2			
308422706	2115	4 C'S TP	JONES	2-24-82	8203	1	8 + 2	0.3	< 1.0	
410216938	2116	BOLINGREEN NURS HM	MONROE	2-26-82	8203	1	2 + 1			
308925092	2117	OGDEN TP	LIBERTY	3 -9-82	8203	4	< 3			
313211689	2118	GEORGIA STATE PRISON	TATTNALL	3 -7-82	8203	4	< 4			
310309859	2119	TARRYTOWN, TOWN OF	MONIGOMERY	3-15-82	8203	4	2 + 2			
310309859	2120	TARRYTOWN, TOWN OF	MONIGOMERY	3-15-82	8203	4	< 3			
415124434	2121	BON AIR APTS	WAYNE	3 -9-82	8203	4	2 + 2			
302001550	2122	WOODBINE, CITY OF	CAMDEN	3-10-82	8203	1	< 4			
302001532	2123	KINGSLAND, CITY OF	CAMDEN	3-11-82	8203	1	< 3			
314812979	2124	WARE COUNTY WATER	WARE	3 -9-82	8203	1	3 + 2	0.9		
413721811	2125	COUNTRY HAVEN MHP	TIFT	2 -2-82	8203	3	68 + 5	72.0	< 1.0	4 + 1
308308091	2126	WRIGHTSVILLE, CITY	JOHNSON	3 -8-82	8203	6	2 + 2			
313812213	2127	MENATT FALLS SD	TOOMBS	3 -1-82	8203	1	4 + 2	3.3	< 1.0	
413822510	2128	M&T WATERWORKS	TOOMBS	3 -9-82	8203	1	8 + 3	6.6	< 1.0	
312611310	2129	SOUTHAMPTON MHP	SPALDING	3-22-82	8203	4	2 + 1			
304704378	2130	ALBANY, CITY OF	DOUGHERTY	3-11-82	8203	4	2 + 1			
304704378	2131	ALBANY, CITY OF	DOUGHERTY	3-17-82	8203	4	2 + 2			
309909673	2132	MERIWETHER CO CORR	MERIWETHER	3-11-82	8203	1	4 + 1	0.7		
300700259	2133	WINDER	BARROW	1-27-82	8203	1	< 2			
311610518	2134	HARTFORD WATER AUTH	FULASKI	3-10-82	8203	1	2 + 2			
308408140	2135	BAKER'S ACRES MHP	JONES	3 -9-82	8203	1	< 2			
303603658	2136	HARLEM, CITY OF	COLUMBIA	3-16-82	8203	1	2 + 2			
308107942	2137	BARTON, CITY OF	JEFFERSON	3-10-82	8203	1	< 3			
415124328	2138	WHISPERING PINES MHP	WAYNE	3-18-82	8203	1	< 2			
305104847	2139	BLOOMINGDALE SD	EFFINGHAM	3-17-82	8203	1	< 2			
305104856	2140	GOSHER TERRACE SD	EFFINGHAM	3-19-82	8203	1	< 2			
415124267	2141	LAKESHORE MHP	WAYNE	3-18-82	8203	1	2 + 2			
306406467	2142	CALHOUN	GORDON	1-26-82	8203	1	< 2			
408113210	2143	BROWN'S TERRACE WS	JEFFERSON	3-17-82	8203	1	< 2			
300700259	2144	WINDER	BARROW	1-27-82	8203	1	< 2			
415124416	2145	REST A WHILE NH	WAYNE	3-18-82	8203	1	< 2			
311117453	2146	PECAN HAVEN MHP	PEACH	3-17-82	8203	1	< 2			
415124300	2147	WATERS MHP	WAYNE	3-18-82	8203	1	< 3			
310818595	2148	DEERWOOD ESTATES	COONEE	3-11-82	8203	1	6 + 2	0.4		
410817766	2149	PINE HILL SD	COONEE	3-11-82	8203	1	< 2			

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301000475	2150	ENIGMA, CITY OF	BERRIEN	3-23-82	8203	4	3 + 3	2.5		
302502406	2151	SOUTHSIDE MOBILE EST	CHATHAM	3-22-82	8203	1	< 4			
302514433	2152	LANDINGS	CHATHAM	3-23-82	8203	1	< 4			
302502132	2153	DYCHES MOBILE EST	CHATHAM	3-22-82	8203	1	< 4			
402504144	2154	WHITFIELD MOBILE EST	CHATHAM	3-22-82	8203	1	< 4			
302522963	2155	GROVE POINT MOB EST	CHATHAM	3-22-82	8203	1	< 3			
302502123	2156	COTTONVALE MOB EST	CHATHAM	3-22-82	8203	1	< 4			
301100676	2157	SOUTH GLADE ESTATES	BIBB	3-24-82	8203	4	< 3			
301100676	2158	SOUTH GLADE ESTATES	BIBB	3-24-82	8203	4	< 3			
408937207	2159	LAKEVIEW MHP	LIBERTY	3-24-82	8203	4	< 4			
310109697	2160	BACONTON, CITY OF	MITCHELL	2-25-82	8203	1	< 4			
301601151	2161	LEEFIELD WATER ASN	BULLOCH	3-24-82	8203	1	< 3			
302502381	2162	SKIDAWAY MOB EST	CHATHAM	3-22-82	8203	1	< 4			
301601027	2163	BROOKLET, CITY OF	BULLOCH	3-24-82	8203	1	< 3			

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ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA FCI/L	RA- 226 FCI/L	RA- 228 FCI/L	URANIUM FCI/L
300500176	2164	H&H MOBILE HOME VILL	BALDWIN	3-24-82	8204	1	< 3			
314312497	2165	JEFFERSONVILLE, CITY	TWIGGS	3-26-82	8204	1	< 2			
407835070	2166	STEWARTS MHP	JACKSON	3-19-82	8204	3	< 2			
305916422	2167	BRITTANY HARBOR #2	FRANKLIN	3-30-82	8204	3	42 + 4	11.4	< 1.0	
300800441	2168	PLANT BOWEN, GA FOWER	BARTOW	3-19-82	8204	1	< 2			
409315790	2169	CAMP GLISSON	LUMPKIN	3 -4-82	8204	1	< 2			
301801401	2170	JACKSON	BUTTS	3 -5-82	8204	1	< 2			
306806784	2171	CARNELIA	HABERSHAM	3-16-82	8204	1	< 2			
314712866	2172	JERSEY, CITY OF	WALTON	3-25-82	8204	3	4 + 1	0.5		
302902927	2173	ATHENS	CLARKE	3-31-82	8204	1	< 2			
310817565	2174	WOODLANDS SD/OCONEE	OCONEE	3-25-82	8204	1	< 3			
306806775	2175	CLARKESVILLE	HABERSHAM	3-23-82	8204	1	< 2			
302802805	2176	CANTON WATER SYSTEM	CHEROKEE	3-10-82	8204	1	< 2			
307907884	2177	MONTICELLO	JASPER	3-24-82	8204	1	< 2			
306606557	2178	UNION POINT	GREENE	3-30-82	8204	1	< 3			
305916501	2179	BRITTANY HARBOR WEST	FRANKLIN	3-30-82	8204	3	11 + 2	1.0	2.7	
311722990	2180	TALL TIMBERS WELL #1	FUTNAM	4 -6-82	8204	4	22 + 3	1.4	2.0	6 + 1
307024437	2181	ISLAND CREEK WELL #5	HANCOCK	4 -6-82	8204	4	2 + 2	0.7		
307024437	2182	ISLAND CREEK WELL #6	HANCOCK	4 -6-82	8204	4	8 + 2	1.9	< 1.0	
302802850	2183	LAKE ARROWHEAD	CHEROKEE	4 -8-82	8204	2	2 + 1			
409933943	2184	BOB ASSOCIATE TP	MERIWETHER	4 -7-82	8204	1	< 2			
300200096	2185	WILLACOCHEE	ATKINSON	4 -7-82	8204	1	4 + 2	4.4	< 1.0	
300300109	2186	ALMA	BACON	3-31-82	8204	1	2 + 2			
307807814	2187	NICHOLSON	JACKSON	4 -6-82	8204	3	4 + 1	0.3		
307824488	2188	HAMILTON MHP #4	JACKSON	4 -6-82	8204	5	< 2			
303403326	2189	BROXTON	COFFEE	3-30-82	8204	1	7 + 3	5.4	< 1.0	
315416727	2190	PEACEFUL VALLEY	WHITE	4 -1-82	8204	2	4 + 1	2.2		
312110738	2191	BLYTHE	RICHMOND	3-31-82	8204	1	2 + 1			
302401822	2192	FOLKSTON	CHARLTON	4 -6-82	8204	1	< 4			
312723154	2193	TOCCOA FALLS MHP	STEPHENS	4 -1-82	8204	5	25 + 3	0.9	< 1.0	
307307341	2194	TUGALOO BAY ESTATES	HART	4 -1-82	8204	3	16 + 3	1.7	< 1.0	
307807814	2195	NICHOLSON	JACKSON	2-25-82	8204	2	2 + 1			
309609150	2196	BUENA VISTA	MARION	1-20-81	8204	3	6 + 1	2.3		
303123138	2197	CORNITH WOODS	CLAYTON	1-20-81	8204	0	9 + 2	< 0.1	< 1.0	
303123138	2198	-	CLAYTON	8 -5-81	8204	0	9 + 2	0.1	< 1.0	
313717743	2199	PINE HILL MHP	TIFT	11 -5-81	8204	2	24 + 4	24.0	< 1.0	
305916422	2200	BRITTANY HARBOR #2	FRANKLIN	9-25-81	8204	3	45 + 5	24.0	< 1.0	
313717743	2201	PINE HILL MHP	TIFT	2 -2-82	8204	2	24 + 4	10.7	< 1.0	
309409298	2202	MARSHALLVILLE, CITY	MACON	2-22-82	8204	3	10 + 2	5.3	2.3	
406911038	2203	LANIER VALLEY	HALL	4-16-82	8204	1	< 2			
306907049	2204	PONDEROSA S.D.	HALL	4-13-82	8204	5	< 3			
303414072	2205	PARKVIEW VILLAGE MHP	COFFEE	4 -6-82	8204	5	< 4			
306907085	2206	MILLIKEN AND CO.	HALL	4-13-82	8204	5	< 4			
306921191	2207	TRAILWOOD ACRES MHP	HALL	4-13-82	8204	5	< 2			
302903027	2208	WE ACRES TP	CLARKE	4-16-82	8204	1	< 2			
302201767	2209	CAKWOOD MHP	CARROLL	4-14-82	8204	1	< 2			
307619833	2210	MEADOW HAVEN TP	HOUSTON	4-14-82	8204	2	18 + 3	11.9	1.6	
307316143	2211	YORK SD	HART	4 -1-82	8204	5	< 3			
402203797	2212	COOK'S MHP	CARROLL	4-13-82	8204	1	< 2			
303405344	2213	NICHOLLS, CITY OF	COFFEE	3-30-82	8204	2	4 + 3	2.0		

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305405081	2214	EVANS MEMORIAL HOSP.	EVANS	4-15-82	8204	1	< 3			
306907021	2215	LEISURE LAKE CONDO	HALL	4-16-82	8204	1	< 3			
411919124	2216	SKY VALLEY RESORT	RABUN	4-7-82	8204	1	< 3			
306916674	2217	MOUNTAINVIEW LAKE ES	HALL	4-16-82	8204	1	< 2			
306916869	2218	MERRITT MHP	HALL	4-13-82	8204	1	< 2			
306907034	2219	MILLIKEN & CO (NH)	HALL	4-13-82	8204	5	< 3			
305403045	2220	DAISY, CITY OF	EVANS	4-15-82	8204	1	< 4			
305919974	2221	GIBSON MHP	HALL	4-13-82	8204	1	< 4			
306606586	2222	WHITE PLAINS, CITY OF	GREENE	4-14-82	8204	2	37 + 5	0.6	< 1.0	
300800405	2223	HIDDEN VALLEY SD	BARTOW	4-15-82	8204	2	2 + 2			
305405027	2224	BELLEVILLE, CITY OF	EVANS	4-15-82	8204	1	< 3			
309909600	2225	MANCHESTER, CITY OF	MERIWETHER	4-15-82	8204	4	< 2			
307024437	2226	ISLAND CREEK WELL #6	HANCOCK	4-19-82	8204	4	7 + 3	1.4		
402203982	2227	J C POLK REST HOME	CARROLL	4-13-82	8204	1	< 3			
402203900	2228	ROLLIN HILLS MHP	CARROLL	4-14-82	8204	1	2 + 1			
302915846	2229	SEMINOLE MHP	CLARKE	4-16-82	8204	3	42 + 5	10.3	< 1.0	
306907030	2230	LODGE HAVEN SD	HALL	4-15-82	8204	1	< 3			
302221969	2231	MEMORY SPRINGS MHP	CARROLL	4-13-82	8204	1	< 3			
307024437	2232	ISLAND CREEK	HANCOCK	4-19-82	8204	4	6 + 3	0.9		
309909600	2233	MANCHESTER, CITY OF	MERIWETHER	4-15-82	8204	5	< 2			
302201688	2234	ROAPVILLE, CITY OF	CARROLL	4-13-82	8204	1	< 2			
310309868	2235	UVALDA, CITY OF	MONTGOMERY	4-2-82	8204	1	< 4			
306907003	2236	L. LANIER SAIL C. SD	HALL	4-15-82	8204	2	19 + 3	0.1	< 1.0	
300200087	2237	PEARSON, CITY OF	ATKINSON	4-7-82	8204	1	< 4			
309609450	2238	BUENA VISTA, CITY OF	MARION	2-10-82	8204	3	7 + 2	2.0		
301000475	2239	ENIGMA, CITY OF	BERRIEN	2-22-82	8204	2	4 + 2	7.5		
313023398	2240	TALBOT CO WATER SYS	TALBOT	2-10-82	8204	2	< 2			
309209027	2241	OAK ST. SD	LOWNDES	2-23-82	8204	1	< 3			
307607591	2242	WARNER ROBINS, CITY	HOUSTON	3-31-82	8204	5	< 2			
306907058	2243	SHADY GROVE TP	HALL	4-16-82	8204	5	< 3			
303403344	2244	NICHOLS, CITY OF	COFFEE	3-30-82	8204	5	< 4			
315013225	2245	TENNILLE, CITY OF	WASHINGTON	4-9-82	8204	1	< 2			
412644216	2246	H M H ENTERPRISES	SPALDING	5-6-82	8204	4	5 + 3	0.5		
310309831	2247	CHARLOTTE WATER ASSN	MONTGOMERY	4-2-82	8204	1	4 + 2	6.4		
NO ID	2248	PARKVIEW VILLAGE		10-7-81	8204	5	3 + 2	2.8		
400500447	2249	SHALIMAR COVE MHP	BALDWIN	4-8-82	8204	1	< 3			
302517084	2250	SANGRENA WOODS S/D	CHATHAM	4-14-82	8204	5	< 3			
307307341	2251	TUGALOO BAY EST	HART	7-7-81	8204	0	19 + 3		< 1.0	
306318164	2252	WALSH'S MHP	GLYNN	4-12-82	8204	1	< 4			
309909600	2253	MANCHESTER, CITY OF	MERIWETHER	4-15-82	8204	1	< 2			
302915846	2254	SEMINOLE VILLAGE	CLARKE	4-1-82	8204	0	28 + 2	6.5	< 1.0	
306907049	2255	PONDEROSA S/D	HALL	4-13-82	8204	4	1 + 1			
315313369	2256	ALAMO	WHEELER	7-28-81	8204	5	50 + 5	46.0	< 1.0	< 2
301500911	2257	PENHOKE, CITY OF	BRYAN	4-20-82	8204	1	< 2			
309909628	2258	WOODBURY, CITY OF	MERIWETHER	4-15-82	8204	1	< 2			
305104883	2259	WESTWOOD HEIGHTS	EFFINGHAM	4-20-82	8204	1	< 3			
306006025	2260	UNION CITY	FULTON	4-16-82	8204	0	< 2			
305705286	2261	ROME, CITY OF	FLOYD	4-15-82	8204	1	< 2			
302502141	2262	EAST PINES S/D	CHATHAM	4-19-82	8204	1	< 3			
408937207	2263	LAKEVIEW TP	LIBERTY	4-20-82	8204	2	< 4			

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: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	IAB DATE	TYPE	GROSS ALPHA FCI/L	RA- 226 FCI/L	RA- 228 FCI/L	URANIUM FCI/L
301510477	2264	RINCON, CITY OF	BRYAN	4-20-82	8204	1	< 3			
309909576	2265	GREENVILLE, CITY OF	MERTWEATHER	4-15-82	8204	1	< 2			
302502026	2266	GOLDEN ISLES S/D	CHATHAM	4-19-82	8204	1	< 4			
313712003	2267	TIFTON, CITY OF	TIFT	3 -9-82	8204	1	2 + 2			
315813610	2268	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	5 + 1	1.4	X	
307515269	2269	LITTLE MTN. VILLAGE	HENRY	4-23-82	8204	1	2 + 1			
302024247	2270	KINGS BAY NSB SPRT	CAMDEN	4 -1-82	8204	3	< 3			
301113911	2271	B&G GOODALL MILL	BIBB	4-22-82	8204	1	1 + 1			
309208972	2272	GREENVALLEY MHP	L/WMDES	4 -1-82	8204	1	< 2			
410116700	2273	SHADY GROVE TP	MITCHELL	3-29-82	8204	1	< 3			
313623576	2274	OAKLANE S/D	THOMAS	3-23-82	8204	0	< 4			
305605225	2275	NEWTON FLAMINATION	PAYETTE	4-20-82	8204	1	< 3			
306107979	2276	WADLEY, CITY OF	JEFFERSON	4-21-82	8204	1	< 3			
NO ID	2277	DACULA, CITY OF		4 -1-82	8204	0	< 3			
301100603	2278	B&G JONES RD. S/D	BIBB	4-22-82	8204	1	< 3			
300500158	2279	NORTHPOINT/SPTMAN PT	BALLWIN	4-22-82	8204	1	< 3			
315813610	2280	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	5 + 2	1.6	X	
301100560	2281	B&G GIBSON DR. S/D	BIBB	4-22-82	8204	1	< 3			
315813610	2282	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	6 + 2	2.0	5.7	
301113887	2283	B&G VON HEG S/D	BIBB	4-22-82	8204	1	< 3			
315813610	2284	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	5 + 2	1.7	5.4	
315813638	2285	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	3 + 2	1.3	6.0	
315813610	2286	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	6 + 2	1.4	6.6	
301100588	2287	B&G HOOPER HILL S/D1	BIBB	4-22-82	8204	1	< 3			
301100597	2288	B&G HOOPER HILL S/D2	BIBB	4-22-82	8204	1	< 2			
301113896	2289	B&G THORN HILL S/D	BIBB	4-22-82	8204	1	< 2			
306706662	2290	LAWRENCEVILLE, CITY OF	GWINNETT	4-16-82	8204	1	< 2			
306706671	2291	LAWRENCEVILLE, CITY O	GWINNETT	4-16-82	8204	1	< 2			
305304993	2292	SWAINSBORO, CITY OF	EMANUEL	4-21-82	8204	6	< 4			
301100579	2293	B&G GREEN HILL S/D	BIBB	4-22-82	8204	1	< 2			

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x: Insufficient sample for analyses

June Table 26
RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8205

Incomplete

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
304004041	2294	CORDELE	CRISP	3-11-82	8205	1	< 4			
309409298	2295	MARSHALLVILLE	MACON	4-12-82	8205	3	8 + 2	4.7	3.0	
304304185	2296	CLIMAX, CITY OF	DECATUR	4-15-82	8205	1	< 4			
312911490	2297	ANDERSONVILLE	SUMTER	3-16-82	8205	1	2 + 2			
308107960	2298	STAPLETON, CITY OF	JEFFERSON	4-28-82	8205	1	2 + 2			
306706635	2299	DULUTH, CITY OF	GWINNETT	4-23-82	8205	1	< 3			
401439216	2300	FELLOWSHIP HOME	BROOKS	4 -8-82	8205	1	< 4			
306005970	2301	NORTH FULTON COUNTY	FULTON	4-30-82	8205	1	< 3			
306706690	2302	NORCROSS, CITY OF	GWINNETT	4-23-82	8205	1	< 2			
305605155	2303	FAYETTE CO.	FAYETTE	5 -4-82	8205	1	< 3			
305104865	2304	LAKESIDES FARM S/D	EFFINGHAM	5 -6-82	8205	1	< 3			
403914228	2305	LAKE SIDE TP	LIBERTY	5 -6-82	8205	1	< 3			
414823905	2306	SMITTY'S MHP	WARE	8-24-81	8205	2	4 + 3	3.6		
307807780	2307	CONVERSE, CITY OF	JACKSON	4-23-82	8205	1	< 3			
308107588	2308	WRENS, CITY OF	JEFFERSON	5 -6-82	8205	6	< 2			
401101463	2309	MACON TP	BIBB	5 -6-82	8205	1	< 3			
315813638	2310	IVEY, CITY OF	WILKINSON	5 -5-82	8205	1	< 3			
300125298	2311	LAKE TARA MHP	APPLING	5 -5-82	8205	4	< 4			
308107998	2312	WRENS, CITY OF	JEFFERSON	5 -6-82	8205	1	< 3			
307607528	2313	CENTERVILLE, CITY OF	HOUSTON	5-10-82	8205	1	3 + 1			
301601036	2314	STATESBORO, CITY OF	BULLOCH	5-12-82	8205	3	< 4			
315313369	2315	ALAMO, CITY OF	WHEELER	5-13-82	8205	4	29 + 4	22.0	< 1.0	
401501984	2316	GARDNER ESTATES SD	BRYAN	5 -6-82	8205	1	< 4			
314612762	2317	KENSINGTON WATER AU	WALKER	5 -4-82	8205	4	< 4			
301100649	2318	PINE ACRES MH COURT	BIBB	5 -6-82	8205	1	< 3			
415825056	2319	BLACK CAT WATERWORKS	WILKINSON	5 -5-82	8205	1	< 3			
305405054	2320	HAGAN, CITY OF	EVANS	5 -5-82	8205	1	< 2			
305405036	2321	CLAXTON, CITY OF	EVANS	5 -5-82	8205	1	< 2			
301500948	2322	BLACK CREEK FARMS W	BRYAN	5 -6-82	8205	1	< 2			
308908622	2323	HINESVILLE, CITY OF	LIBERTY	5 -6-82	8205	1	< 2			
300100017	2324	BAXLEY, CITY OF	APPLING	5-12-82	8205	1	2 + 2			
315813629	2325	IRWINTON, WELL#2	WILKINSON	5-12-82	8205	4	3 + 1			
303403317	2326	AMEROSE, CITY OF	COFFEE	5-11-82	8205	1	< 2			
000000000	2327	COWETA CO PROPOSE WS		5-19-82	8205	4	< 1			
308107951	2328	LOUISVILLE, CITY OF	JEFFERSON	5 -4-82	8205	4	< 1			
306706705	2329	SUGAR HILL, CITY OF	GWINNETT	4-23-82	8205	1	< 2			
307307280	2330	HARTWELL, CITY OF	HART	5 -7-82	8205	1	< 2			
308908686	2331	ISLE OF WIGHT	LIBERTY	5-13-82	8205	1	< 2			
315813629	2332	IRWINTON, HWY 57	WILKINSON	5-12-82	8205	4	4 + 1	0.6		
308908701	2333	LAKE GEORGE	LIBERTY	5-13-82	8205	1	< 2			
400100069	2334	BASS SD	APPLING	5-12-82	8205	1	2 + 2			
307607591	2335	WARNER ROEBINS, CITY	HOUSTON	5-17-82	8205	5	1 + 1			
306706653	2336	GWINNETT CO.	GWINNETT	5 -7-82	8205	1	< 2			
406309934	2337	STERLING MHP	GLYNN	5-19-82	8205	1	< 4			
315613528	2338	ABBEVILLE	WILCOX	5-20-82	8205	1	< 3			
309809533	2339	SAPELO GARDENS	MCINTOSH	5-18-82	8205	1	< 4			
308208012	2340	MILLEN, CITY OF	JENKINS	5-12-82	8205	1	< 3			
308208012	2341	MILLEN, CITY OF	JENKINS	5-12-82	8205	0	< 3			
315613537	2342	PINEVIEW	WILCOX	5-20-82	8205	1	< 3			
412921265	2343	KOINONIA FARMS	SUMTER	4-20-82	8205	1	< 3			

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: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

Incomplete

[illegible]

June Table 26
RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8206

Incomplete

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
000000000	2368	WARWICK, CITY		5-24-82	8206	4	< 4			
309209249	2369	LOWNDES CO CORR INS	LOWNDES	4-22-82	8206	1	< 4			
000000000	2370	SHENANDOAH		5-26-82	8206	1	< 2			
315013191	2371	OONEE, CITY	WASHINGTON	5-21-82	8206	1	4 + 2			
306406476	2372	FAIRMOUNT, CITY	GORDON	5-27-82	8206	1	< 2			
315513488	2373	DALTON, CITY	WHITEFIELD	5-27-82	8206	1	< 3			
415251150	2374	PINE NEEDLE LN TP	WEBSTER	4-22-82	8206	1	< 4			
000000000	2375	NEWMAN		6 -1-82	8206	0	< 3			
301723514	2376	RIVERSIDE MHP	BURKE	5-26-82	8206	4	< 4			
304604344	2377	VIENNA, CITY	DOOLY	6 -3-82	8206	4	< 3			
305308073	2378	KITE, CITY	JOHNSON	6 -1-82	8206	4	6 + 3			
315813629	2379	IRWINGTON, TOWN	WILKINSON	6 -3-82	8206	4	3 + 1			
309108799	2380	LUDOWICI, CITY	LONG	6 -2-82	8206	1	< 3			
308708239	2381	CADWELL, CITY	LAURENS	6 -2-82	8206	1	< 4			
309509385	2382	COLBERT, CITY	MADISON	6 -4-82	8206	4	3 + 1			
303603649	2383	GROVETOWN, CITY	COLUMBIA	6 -6-82	8206	4	4 + 1			
308924947	2384	GUY WELLS MHP	LIBERTY	6-10-82	8206	4	2 + 1			
315813629	2385	IRWINGTON, CITY #2	WILKINSON	6-10-82	8206	6	< 3			
413629313	2386	SHADY REST MHP	THOMAS	5-20-82	8206	1	3 + 2			
302501935	2387	PORT WENI WORTH, CITY	CHATHAM	6 -8-82	8206	1	2 + 2			
315913714	2388	WARWICK, CITY	WORTH	5-25-82	8206	1	< 3			
401502002	2389	KEN'S MHP	BRYAN	6 -7-82	8206	1	< 3			
315913680	2390	POULAN, CITY	WORTH	4-21-82	8206	1	4 + 2			
313311695	2391	BUTLER, CITY	TAYLOR	5-10-82	8206	1	2 + 1			
313617241	2392	ROSE CITY	THOMAS	5-20-82	8206	3	4 + 2			
413722054	2393	VEHZEY TP	TIFT	5 -6-82	8206	1	3 + 2			
306306248	2394	YOUTH ESTATES	GLYNN	6-14-82	8206	1	< 4			
304304158	2395	ATTAPULGAS, CITY	DECATUR	5-18-82	8206	3	11 + 2		< 1.0	
302501926	2396	FOOLER, CITY	CHATHAM	6 -9-82	8206	1	< 3			
401502057	2397	HOLLY TP	BRYAN	6 -7-82	8206	1	< 3			
302502008	2398	SAVANNAH ST COLLEGE	CHATHAM	6 -8-82	8206	1	< 3			
302502196	2399	GRAY'S SD	CHATHAM	6 -8-82	8206	1	< 3			
401534209	2400	SHUMAN TP	BRYAN	6 -7-82	8206	1	< 3			
311210389	2401	BIG CANOE WS	PICKENS	6-21-82	8206	4	< 3			
302802887	2402	NOONDAY VALLEY MH	CHEROKEE	6-16-82	8206	4	< 2			
308708275	2403	EAST DUBLIN, CITY	LAURENS	6-14-82	8206	4	< 3			
401602364	2404	LAKE SIDE EST SD	BULLOCH	6-15-82	8206	1	< 2			
313211689	2405	GEORGIA ST PRISON	TATTNAIL	6-16-82	8206	1	< 2			
301620581	2406	WINDFIELD SD	BULLOCH	6-15-82	8206	1	< 2			
301623775	2407	LEE'S RIVERSIDE MHP	BULLOCH	6-15-82	8206	1	< 2			
301623401	2408	FOREST HILLS SD	BULLOCH	6-15-82	8206	1	< 3			
312911481	2409	AMERICUS, CITY	SUMTER	6-22-82	8206	1	< 2			
301619844	2410	TANKERSLEY SD	BULLOCH	6-15-82	8206	1	< 3			
309409289	2411	IDEAL, CITY	MACON	6-25-82	8206	1	< 2			
312911524	2412	PLAINS, CITY	SUMTER	6-24-82	8206	1	3 + 1			
302514386	2413	GEORGETOWN	CHATHAM	6-16-82	8206	1	< 3			
415124258	2414	IRIFTHOOD MHP	WAYNE	6-23-82	8206	1	< 3			
305825467	2415	BAY COLONY SD #1	FORSYTH	6-23-82	8206	4	< 2			
312110765	2416	RICHMOND CO WS #105	RICHMOND	6-23-82	8206	4	< 2			
312107765	2417	RICHMOND CO WS #106	RICHMOND	6-23-82	8206	4	< 2			

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June Table 26
RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8206

Complete

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	IAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
305825467	2418 BAY COLONY SD #2		FORSYTH	6-23-82	8206	4	< 2			

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: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

Table 27

Exposure Rate at Nuclear Facilities
Measured with TLD's

DAWSON FOREST WILDLIFE MANAGEMENT AREA ... 811230-820618: 170 DAYS

TLD#	MR	MICRR/HR	MR/YR	
1.0	33.9	8.3	72.7	
(+-)	4.7	1.2	10.2	
2.0	46.8	11.5	100.4	
(+-)	4.5	1.1	9.6	
3.0	34.7	8.5	74.5	
(+-)	4.1	1.0	8.7	
4.0	31.4	7.7	67.4	
(+-)	5.8	1.4	12.5	
6.0	32.3	7.9	69.3	
(+-)	4.9	1.2	10.4	
7.0	33.9	8.3	72.7	
(+-)	2.9	0.7	6.3	
8.0	126.1	30.9	270.7	
(+-)	14.2	3.5	30.5	... <> 95% NORMAL DIST.
9.0	28.9	7.1	62.2	
(+-)	4.9	1.2	10.5	
10.0	27.9	6.8	59.9	
(+-)	2.9	0.7	6.2	
NET. AVG.:	44.0	10.8	94.4	
(+-)	62.5	15.3	134.3	

GEORGIA TECH RESEARCH REACTOR ... 820219-820611: 112 DAYS

TLD#	MR	MICRR/HR	MR/YR	
2.0	22.2	8.3	72.3	
(+-)	2.5	0.9	8.1	
3.0	23.8	8.9	77.6	
(+-)	3.2	1.2	10.3	
5.0	19.4	7.2	63.1	
(+-)	3.1	1.2	10.2	
6.0	18.6	6.9	60.7	
(+-)	3.1	1.1	10.0	
7.0	19.4	7.2	63.1	
(+-)	2.3	0.9	7.6	
8.0	17.6	6.5	57.3	
(+-)	2.2	0.8	7.2	
9.0	90.2	33.5	293.8	
(+-)	10.4	3.9	33.9	... <> 95% NORMAL DIST.
10.0	15.2	5.6	49.4	
(+-)	4.5	1.7	14.8	
11.0	15.1	5.6	49.1	
(+-)	3.5	1.3	11.2	
12.0	16.8	6.3	54.9	
(+-)	2.3	0.9	7.5	
13.0	23.2	8.6	75.6	
(+-)	3.1	1.1	10.0	
14.0	18.3	6.8	59.6	
(+-)	3.2	1.2	10.5	
NET. AVG.:	25.0	9.3	81.4	
(+-)	41.4	15.4	135.1	

STATE BACKGROUND ... 811230-820618: 170 DAYS

TLD#	MR	MICRR/HR	MR/YR
18.0	23.2	5.7	49.8
(+-)	2.2	0.5	4.7

E-26-671



GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF INTERDISCIPLINARY PROGRAMS
205 OLD CIVIL ENGINEERING BUILDING
ATLANTA, GEORGIA 30332

ENVIRONMENTAL RESOURCES CENTER
(404) 894-2375

BIOENGINEERING CENTER
(404) 894-2375

M E M O R A N D U M

TO: James Hardeman, Program Manager
Environmental Radiation Program
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director *Bernd Kahn*
Environmental Resources Center

DATE: August 23, 1982

SUBJ: Monthly Report of Activities for the State by the Environmental
Radiation Laboratory, July 1982

The results of radionuclide analyses are reported for the following
sample types that were processed this month:

Environmental monitoring at nuclear facilities by DNR staff	Table 1 - 19
Monitoring fallout	Table 20
Monitoring by DNR staff of Community Water Systems	Table 21
TLD radiation data at nuclear facilities obtained by DNR staff	Table 22

Of the samples collected in the environment at nuclear facilities, the
following contained radioactivity attributed to the facility:

Tables 17 & 19 -- H-3 in rain and surface water collected
near the Savannah River Plant

All other radionuclides in Tables 1 - 19 are attributed to fallout or
the natural radiation background. All samples collected for the NRC project
are indicated by asterisks in the appropriate tables.

No radioactivity attributed to fallout was detected in airborne particles
collected with filters in Atlanta, as shown in Table 20.

Radioactivity results from community water supplies are compiled in
Table 21. These include samples WS 2164 - 2418 begun earlier and samples WS
2419 - 2572 initiated in July. Samples WS 2164 - 2213 are now complete

because uranium analyses were performed. Supplies among these for which uranium levels exceeded 15 pCi/l were WS 2167, 2193 and 2200; the first and third of these also had radium levels above 5 pCi/l. Radium concentrations above this value also were measured in sample WS 2395. Among the newly analyzed samples, the following had elevated radium concentrations:

WS 2431	Lake Harbor Shore SD
WS 2442	Brittany Harbor #2
WS 2454	Alapaha
WS 2472	Suburban MHP

Other supplies that may have elevated levels because gross alpha particle activity levels could equal or exceed 5 pCi/l are WS 2443, 2463, 2466, 2469, 2496, 2503, 2526, 2534, 2542, 2552, 2554, 2559, 2564, 2565, 2566 and 2572.

TLD measurements obtained in the vicinity of the Hatch Nuclear Plant are given in Table 22. Exposure rates ranged from 22 to 45 mR/year, compared to background values in the area of 35 to 71 mR/yr.

Table 1

Radioactivity Levels in Water Samples from
the Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
B606*	Altamaha River, #170	<5	<2
B607*	Altamaha River, #172	<5	<2

-
- Notes: 1. Samples were collected on June 23, 1982, by Georgia Power staff.
2. Other results are given in Table 4 in the Monthly Report for June, 1982.

Table 2

Radioactivity Levels in Milk Samples from
the Environment of the Hatch Nuclear Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B614*	GSP	<5	4	<10	1.8	<200	<1
B615*	Williamson	<5	3	< 6	1.7	<200	<1
B616*	Johnson	<5	<2	8	1.5	<200	<1

Notes: 1. Samples were collected on July 5, 1982, by Georgia Power staff.
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 3
Radioactivity Levels in Soil Samples from the
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>			
		<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
B617	TLD # 7	60	2,300	600	400
B618	TLD # 8	<30	900	700	600
B619	TLD #12	200	400	1,000	600
B620	TLD #13	<30	1,400	400	400
B621	TLD #20	200	400	700	600
B622	TLD #22	<30	3,500	600	1,000
B623	TLD #24	<30	1,600	300	200
B624	TLD #28	107	2,200	300	500
B625	TLD #38	270	400	400	300
B626	TLD #41	<30	200	1,200	1,600
B627	TLD #44	102	800	600	400

Notes: 1. Samples were collected on July 21 -22, 1982.
2. No other man-made photon-emitting radionuclides were detected.

Table 4

Radioactivity Levels in Grass Samples from the
Environment of the Hatch Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg	
		Cs-137	Be-7
B628	TLD # 7	<20	1,400
B629	TLD # 8	<20	2,400
B630	TLD #12	<20	660
B631	TLD #13	50	850
B632	TLD #20	23	370
B633	TLD #22	48	930
B634	TLD #28	57	800
B635	TLD #38	440	800
B636	TLD #44	92	780

-
- Notes: 1. Samples were collected on July 21 - 22, 1982.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 5

Radioactivity Levels in Water Samples from the
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
B637	TLD #22	<4	3 ± 2	<200
B638	TLD #48	<2	3 ± 2	<200
B639	US Rt. 1 & 15	<3	<3	<200
B640	Hatch Visitor Center	<3	5 ± 2	<200
B641	Dennis Grocery	<3	3 ± 2	<200
B642	TLD # 1	<3	<3	<200
B643	NRC-TLD #11	<4	3 ± 2	<200
B644	TLD #13	<2	<3	<300
B645	TLD #22	3 ± 3	4 ± 2	<300
B646	TLD #28	<3	4 ± 2	<300
B647	TLD #28	2 ± 2	5 ± 2	<300
B648	TLD #49	5 ± 3	5 ± 2	<300

-
- Notes: 1. Samples were collected July 21 - 22, 1982.
 2. Samples B637 and 638 are surface water; all others are ground water.
 3. No man-made photon-emitting radionuclides were detected in samples B637 and 638 (Cs-137 <20 pCi/l)

Table 6

Radioactivity Levels in Grass Samples from the
Environment of the Hatch Nuclear Plant

Sample No.	Location	Radionuclide concentration, pCi/kg	
		Cs-137	Be-7
B649*	# 5	35	2,300
B650*	#17	<20	1,680
B651*	#21	<20	780

-
- Notes: 1. Samples were collected on July 16, 1982, by Georgia Power Company staff.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 7

Radioactivity Levels in Air Samples from the
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m³</u>	<u>Radionuclide concentration, pCi/m³</u>	
				<u>I-131</u>	<u>Gross beta</u>
B652*	Cartridge	Plant Hatch	272	<0.01	---
B653*	Paper filter	Plant Hatch	272	---	0.004
B654*	Cartridge	Substation	272	<0.01	---
B655*	Paper filter	Substation	272	---	0.006

-
- Notes: 1. Samples were collected on July 26, 1982 after 7-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 8

Radioactivity Levels in Water Samples from
the Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B656*	Station #170	<3	4 ± 2	<200	<0.6
B657*	Station #172	<4	2 ± 2	<200	<0.6

-
- Notes: 1. Samples were collected June 23 - July 28, 1982, by Georgia Power Company staff.
2. No man-made photon-emitting radionuclides were detected (Cs-137 <20 pCi/l).

Table 9

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample Nos.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
F429, 465, 473	Chattahoochee River, downstream at Great Southern Paper Co.	<5	<2

-
- Notes: 1. A composite was prepared using equal amounts of each sample.
2. The samples were collected in April, May and June, 1982. Other results for these samples are given in the Monthly Reports for May, June and July, 1982.

Table 10

Radioactivity Levels in Milk Sample from
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample #</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F468*	Silcox	<5	<2	<6	1.6	<200	<0.5

-
- Notes: 1. Sample was collected on July 6, 1982, by Alabama Power Company staff.
3. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 11

Radioactivity Levels in Air Samples from the
Environment in Georgia of the Farley Nuclear Plant

Sample No.	Sample type	Location	Volume, m ³	Radionuclide concentration, pCi/m ³	
				I-131	Gross beta
F469*	Cartridge	Great Southern Airport	1042	<0.01	---
F470*	Paper Filter	Great Southern Airport	1042	---	0.016
F471*	Cartridge	Blakely Water Tower	1058	<0.01	---
F472*	Paper Filter	Blakely Water Tower	1058	---	0.015

Notes: 1. Samples were collected on July 8, 1982, after 7-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 12

Radioactivity Levels in Water Sample from
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F473*	Chattahoochee River downstream at Great Southern Paper Co.	<2	4 ± 2	300 ± 200	<0.5

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- Notes: 1. Sample was collected on June 14 - July 13, 1982.
2. No man-made photon-emitting radionuclides were
detected (Cs-137 <20 pCi/l).

Table 13

Radioactivity Levels in Vegetation Samples from the
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>	
		<u>Cs-137</u>	<u>Be-7</u>
F474*	FB-1218-MI-071282 Background	<30	740
F475*	FI-0701-MI-071282 Indicator	<30	1,390

-
- Notes: 1. Samples were collected on July 12, 1982, by
Alabama Power Co.
2. No other man-made photon-emitting radionuclides
were detected. Be-7 is formed in nature.

Table 14

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F476*	Chattahoochee River WRI-MI-0782 indicator sample at Great Southern Paper Co.	<2	2 ± 2	<200	<0.4
F477*	Chattahoochee River WRB-MI-0782 background sample at G. Andrews Dam	<3	<2	<200	<0.4

-
- Notes: 1. Samples were collected continuously during July and
submitted by Alabama Power Co. staff.
2. No man-made photon-emitting radionuclides were detected
(Cs-137 <20 pCi/l).

Table 15

Radioactivity Levels in Waste Water at the
Georgia Tech Research Reactor Center

<u>Sample No.</u>	<u>Location</u>	<u>Radionuclide concentration, pCi/kg</u>	
		<u>Sr-89</u>	<u>Sr-90</u>
GT132	Liquid Waste Tank	<5	7

Notes: 1. Sample was collected on June 14, 1982.
2. Other results are given in Table 17 of the
Monthly Report for June, 1982.

Table 16

Radioactivity Levels in Water Samples from the
Environment in Georgia of the Savannah River Plant

<u>Sample Nos.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
SR586, 609, 668	I & D Water Supply	<5	<2
SR602, 667	Savannah R., down- stream at Hwy. 301	<5	<2

-
- Notes: 1. A composite was prepared using equal amounts of each sample.
2. These samples were collected on April, May and June, 1982. Other results for these samples are given in the Monthly Reports for April, May and June, 1982.

Table 17

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR693	I & D Water Supply Port Wentworth	<2	3 ± 2	1,500 ± 200	<0.5
SR694	Savannah R. down- stream at Hwy. 301	<2	2 ± 2	3,300 ± 200	<0.8

Notes: 1. Sample SR693 was collected July 7 - 13, 1982.
Sample SR694 was collected July 8, 1982.
2. No man-made photon-emitting radionuclides were
detected (Cs-137 <20 pCi/l).

Table 18

Radioactivity Levels in Soy Bean Sample from the
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, pCi/kg</u>	<u>Be-7, pCi/kg</u>	<u>H-3, pCi/l</u>
SR695	Thompson Farm PR-83-27 Screven Co.	<30	<300	<200

Notes: 1. Sample was collected on July 15, 1982.
2. Sample was distilled for H-3 analysis.
3. No other man-made photon-emitting radionuclides
were detected.

Table 19

Radioactivity Levels in Water Samples from
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
SR696*	Savannah River, R-2	<3	2 ± 2	<200
SR697*	Savannah River, R-10	<3	3 ± 2	4,400 ± 300
SR698*	Augusta rainwater	---	---	1,700 ± 200
SR699*	Perkins rainwater	---	---	400 ± 200
SR700*	So. Richmond rainwater	---	---	<200
SR701*	Waynesboro rainwater	---	---	<200
SR702*	Hwy. 301 rainwater	---	---	<200

-
- Notes: 1. Samples SR696 - 697 were collected on July 13, 1982. Samples SR698 - 702 were collected June 17 - July 15, 1982. All were collected by Savannah River Plant staff.
2. No man-made photon-emitting radionuclides were detected in samples SR696 and SR697 (Cs-137 <20 pCi/l).

Table 20

Fallout from Atmospheric Nuclear Tests of
Airborne Particles - State Building Samples

Sample No.	Sample date, 1982	Volume, m ³	Gross beta, pCi/m ³	Radionuclide concentration, fCi/m ³						
				Be-7	Zr-95	Nb-95	Ru-103	Cs-137	Ce-141	Ce-144
S1905	July 1 - 13	20,700	0.02	71	<1	<1	<1	<1	<1	<1
S1906	June 13 - 21	13,800	0.01	89	<1	<1	<1	<1	<1	<1

-
- Notes: 1. Gross beta activity was measured 4 days after collection to eliminate radon daughters. Be-7 is of natural origin. Among the shorter-lived fission products that were searched for are I-131 and Ba-140.
2. The filters are 12.5-cm-dia. charcoal-impregnated pads.

>July Table 21
RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8204

Complete

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
300500176	2164	H&H MOBILE HOME VILL	BALDWIN	3-24-82	8204	1	< 3			
314312497	2165	JEFFERSONVILLE, CITY	TWIGGS	3-26-82	8204	1	< 2			
407835070	2166	STEWARTS MHP	JACKSON	3-19-82	8204	3	< 2			
305916422	2167	BRITTANY HARBOR #2	FRANKLIN	3-30-82	8204	3	42 + 4	11.4	< 1.0	22 + 3
300800441	2168	PLANT BOWEN, GA POWER	BARTOW	3-19-82	8204	1	< 2			
409315790	2169	CAMP GLISSON	LUMPKIN	3-4-82	8204	1	< 2			
301801401	2170	JACKSON	BUTTS	3-5-82	8204	1	< 2			
306806784	2171	CARNELIA	HABERSHAM	3-16-82	8204	1	< 2			
314712666	2172	JERSEY, CITY OF	WALTON	3-25-82	8204	3	4 + 1	0.5		
302902927	2173	ATHENS	CLARKE	3-31-82	8204	1	< 2			
310817565	2174	WOODLANDS SD/OCONEE	OCONEE	3-25-82	8204	1	< 3			
306806775	2175	CLARKESVILLE	HABERSHAM	3-23-82	8204	1	< 2			
302802805	2176	CANTON WATER SYSTEM	CHEROKEE	3-10-82	8204	1	< 2			
307907884	2177	MONTICELLO	JASPER	3-24-82	8204	1	< 2			
306606557	2178	UNION POINT	GREENE	3-30-82	8204	1	< 3			
305916501	2179	BRITTANY HARBOR WEST	FRANKLIN	3-30-82	8204	3	11 + 2	1.0	2.7	4 + 1
311722990	2180	TALL TIMBERS WELL #1	PUTNAM	4-6-82	8204	4	22 + 3	1.4	2.0	6 + 1
307024437	2181	ISLAND CREEK WELL #5	HANCOCK	4-6-82	8204	4	2 + 2	0.7		
307024437	2182	ISLAND CREEK WELL #6	HANCOCK	4-6-82	8204	4	8 + 2	1.9	< 1.0	
302802850	2183	LAKE ARROWHEAD	CHEROKEE	4-8-82	8204	2	2 + 1			
409933943	2184	BOB ASSOCIATE TP	MERTWEATHER	4-7-82	8204	1	< 2			
300200096	2185	WILLACOCOCHEE	ATKINSON	4-7-82	8204	1	4 + 2	4.4	< 1.0	
300300109	2186	ALMA	BACON	3-31-82	8204	1	2 + 2			
307807814	2187	NICHOLSON	JACKSON	4-6-82	8204	3	4 + 1	0.3		
307824488	2188	HAMILTON MHP #4	JACKSON	4-6-82	8204	5	< 2			
303403326	2189	BROXTON	COFFEE	3-30-82	8204	1	7 + 3	5.4	< 1.0	
315416727	2190	PEACEFUL VALLEY	WHITE	4-1-82	8204	2	4 + 1	2.2		
312110738	2191	BLTYHE	RICHMOND	3-31-82	8204	1	2 + 1			
302401822	2192	FOLKSTON	CHARLTON	4-6-82	8204	1	< 4			
312723154	2193	TOCCOA FALLS MHP	STEPHENS	4-1-82	8204	5	25 + 3	0.9	< 1.0	17 + 2
307307341	2194	TUGALOO BAY ESTATES	HART	4-1-82	8204	3	16 + 3	1.7	< 1.0	6 + 1
307807814	2195	NICHOLSON	JACKSON	2-25-82	8204	2	2 + 1			
309609450	2196	BUENA VISTA	MARION	1-20-81	8204	3	6 + 1	2.3		
303123138	2197	CORNITH WOODS	CLAYTON	1-20-81	8204	0	9 + 2	< 0.1	< 1.0	
303123138	2198	-	CLAYTON	8-5-81	8204	0	9 + 2	0.1	< 1.0	
313717743	2199	PINE HILL MHP	TIFT	11-5-81	8204	2	24 + 4	24.0	< 1.0	< 2
305916422	2200	BRITTANY HARBOR #2	FRANKLIN	9-25-81	8204	3	45 + 5	24.0	< 1.0	23 + 3
313717743	2201	PINE HILL MHP	TIFT	2-2-82	8204	2	24 + 4	10.7	< 1.0	2 + 1
309409298	2202	MARSHALLVILLE, CITY	MACON	2-22-82	8204	3	10 + 2	5.3	2.3	< 2
406911038	2203	LANIER VALLEY	HALL	4-16-82	8204	1	< 2			
306907049	2204	PONDEROSA S.D.	HALL	4-13-82	8204	5	< 3			
303414072	2205	PARKVIEW VILLAGE MHP	COFFEE	4-6-82	8204	5	< 4			
306907085	2206	MILLIKEN AND CO.	HALL	4-13-82	8204	5	< 4			
306921191	2207	TRAILWOOD ACRES MHP	HALL	4-13-82	8204	5	< 2			
302903027	2208	WE ACRES TP	CLARKE	4-16-82	8204	1	< 2			
302201767	2209	OAKWOOD MHP	CARROLL	4-14-82	8204	1	< 2			
307619833	2210	MEADOW HAVEN TP	HOUSTON	4-14-82	8204	2	18 + 3	11.9	1.6	< 2
307316143	2211	YORK SD	HART	4-1-82	8204	5	< 3			
402203797	2212	COOK'S MHP	CARROLL	4-13-82	8204	1	< 2			
303403344	2213	NICHOLLS, CITY OF	COFFEE	3-30-82	8204	2	4 + 3	2.0		

NOTES: TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER
: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8204

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	IAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
305405081	2214	EVANS MEMORIAL HOSP.	EVANS	4-15-82	8204	1	< 3			
306907021	2215	LEISURE LAKE CONDO	HALL	4-16-82	8204	1	< 3			
411919124	2216	SKY VALLEY RESORT	RABUN	4 -7-82	8204	1	< 3			
306916674	2217	MOUNTAINVIEW LAKE ES	HALL	4-16-82	8204	1	< 2			
306916869	2218	MERRITT MHP	HALL	4-13-82	8204	1	< 2			
306907094	2219	MILLIKEN & CO (NH)	HALL	4-13-82	8204	5	< 3			
305405045	2220	DAISY, CITY OF	EVANS	4-15-82	8204	1	< 4			
306919974	2221	GIBSON MHP	HALL	4-13-82	8204	1	< 4			
306606586	2222	WHITE PLAINS, CITY OF	GREENE	4-14-82	8204	2	37 + 5	0.6	< 1.0	
300800405	2223	HIDDEN VALLEY SD	BARTOW	4-15-82	8204	2	2 + 2			
305405027	2224	BELLEVILLE, CITY OF	EVANS	4-15-82	8204	1	< 3			
309909600	2225	MANCHESTER, CITY OF	MERIWETHER	4-15-82	8204	4	< 2			
307024437	2226	ISLAND CREEK WELL #6	HANCOCK	4-19-82	8204	4	7 + 3	1.4	< 1.0	
402203982	2227	J C POLK REST HOME	CARROLL	4-13-82	8204	1	< 3			
402203900	2228	ROLLIN HILLS MHP	CARROLL	4-14-82	8204	1	2 + 1			
302915846	2229	SEMINOLE MHP	CLARKE	4-16-82	8204	3	42 + 5	10.3	< 1.0	
306907030	2230	LODGE HAVEN SD	HALL	4-15-82	8204	1	< 3			
302221969	2231	MEMORY SPRINGS MHP	CARROLL	4-13-82	8204	1	< 3			
307024437	2232	ISLAND CREEK	HANCOCK	4-19-82	8204	4	6 + 3	0.9		
309909600	2233	MANCHESTER, CITY OF	MERIWETHER	4-15-82	8204	5	< 2			
302201688	2234	ROAPVILLE, CITY OF	CARROLL	4-13-82	8204	1	< 2			
310309868	2235	UVALDA, CITY OF	MONTGOMERY	4 -2-82	8204	1	< 4			
306907003	2236	L. LANIER SAIL C. SD	HALL	4-15-82	8204	2	19 + 3	0.1	< 1.0	
300200087	2237	PEARSON, CITY OF	ATKINSON	4 -7-82	8204	1	< 4			
309609450	2238	BUENA VISTA, CITY OF	MARION	2-10-82	8204	3	7 + 2	2.0		
301000475	2239	ENIGMA, CITY OF	BERRIEN	2-22-82	8204	2	4 + 2	7.5	< 1.0	
313023398	2240	TALBOT CO WATER SYS	TALBOT	2-10-82	8204	2	< 2			
309209027	2241	OAK ST. SD	LOWNDES	2-23-82	8204	1	< 3			
307607591	2242	WARNER ROBINS, CITY	HOUSTON	3-31-82	8204	5	< 2			
306907058	2243	SHADY GROVE TP	HALL	4-16-82	8204	5	< 3			
303403344	2244	NICHOLS, CITY OF	COFFEE	3-30-82	8204	5	< 4			
315013225	2245	TENNILLE, CITY OF	WASHINGTON	4 -9-82	8204	1	< 2			
412644216	2246	H M H ENTERPRISES	SPALDING	5 -6-82	8204	4	5 + 3	0.5		
310309831	2247	CHARLOTTE WATER ASSN	MONTGOMERY	4 -2-82	8204	1	4 + 2	6.4	< 1.0	
NO ID	2248	PARKVIEW VILLAGE		10 -7-81	8204	5	3 + 2	2.8		
400500447	2249	SHALIMAR COVE MHP	BALDWIN	4 -8-82	8204	1	< 3			
302517064	2250	SANGRENA WOODS S/D	CHATHAM	4-14-82	8204	5	< 3			
307307541	2251	TUCALOO BAY EST	HART	7 -7-81	8204	0	19 + 3	4.4	< 1.0	
306318164	2252	WALSH'S MHP	GLYNN	4-12-82	8204	1	< 4			
309909600	2253	MANCHESTER, CITY OF	MERIWETHER	4-15-82	8204	1	< 2			
302915846	2254	SEMINOLE VILLAGE	CLARKE	4 -1-82	8204	0	28 + 2	7.2	< 1.0	
306907049	2255	PONDEROSA S/D	HALL	4-13-82	8204	4	1 + 1			
315313369	2256	ALAMO	WHEELER	7-28-81	8204	5	50 + 5	46.0	< 1.0	< 2
301500911	2257	PEMBROKE, CITY OF	RYAN	4-20-82	8204	1	< 2			
309909628	2258	WOODBURY, CITY OF	MERIWETHER	4-15-82	8204	1	< 2			
305104883	2259	WESTWOOD HEIGHTS	EFFINGHAM	4-20-82	8204	1	< 3			
306006025	2260	UNION CITY	FULTON	4-16-82	8204	0	< 2			
305705286	2261	ROME, CITY OF	FLOYD	4-15-82	8204	1	< 2			
302502141	2262	EAST PINES S/D	CHATHAM	4-19-82	8204	1	< 3			
408937207	2263	LAKEVIEW TP	LIBERTY	4-20-82	8204	2	< 4			

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July Table 21
RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8204

Incomplete

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
301510477	2264	RINCON, CITY OF	BRYAN	4-20-82	8204	1	< 3			
309909576	2265	GREENVILLE, CITY OF	MERIWETHER	4-15-82	8204	1	< 2			
302502026	2266	GOLDEN ISLES S/D	CHATHAM	4-19-82	8204	1	< 4			
313712003	2267	TIFTON, CITY OF	TIFT	3 -9-82	8204	1	2 + 2			
315813610	2268	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	5 + 1	1.4	X	
307515269	2269	LITTLE MTN. VILLAGE	HENRY	4-23-82	8204	1	2 + 1			
302024247	2270	KINGS BAY NSB SPPRT	CAMDEN	4 -1-82	8204	3	< 3			
301113911	2271	B&G GOODALL MILL	BIBB	4-22-82	8204	1	1 + 1			
309208972	2272	GREENVALLEY MHP	LOWNDES	4 -1-82	8204	1	< 2			
410116700	2273	SHADY GROVE TP	MITCHELL	3-29-82	8204	1	< 3			
313623576	2274	OAKLANE S/D	THOMAS	3-23-82	8204	0	< 4			
305605225	2275	NEWTON PLANTATION	FAYETTE	4-20-82	8204	1	< 3			
308107979	2276	WADLEY, CITY OF	JEFFERSON	4-21-82	8204	1	< 3			
NO ID	2277	DACULA, CITY OF		4 -1-82	8204	0	< 3			
301100603	2278	B&G JONES RD. S/D	BIBB	4-22-82	8204	1	< 3			
300500158	2279	NORTHPOINT/SPITMAN PT	BALDWIN	4-22-82	8204	1	< 3			
315813610	2280	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	5 + 2	1.6		
301100560	2281	B&G GIBSON DR. S/D	BIBB	4-22-82	8204	1	< 3			
315813610	2282	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	6 + 2	2.0	5.7	
301113887	2283	B&G VON REG S/D	BIBB	4-22-82	8204	1	< 3			
315813610	2284	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	5 + 2	1.7	5.4	
315813638	2285	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	3 + 2	1.3	6.0	
315813610	2286	GORDON, CITY OF	WILKINSON	4-28-82	8204	6	6 + 2	1.4	6.6	
301100588	2287	B&G HOOPER HILL S/D1	BIBB	4-22-82	8204	1	< 3			
301100597	2288	B&G HOOPER HILL S/D2	BIBB	4-22-82	8204	1	< 2			
301113896	2289	B&G THORN HILL S/D	BIBB	4-22-82	8204	1	< 2			
306706662	2290	LAWRENCVILLE, CITY OF	GWINNETT	4-16-82	8204	1	< 2			
306706671	2291	LAWRENCEVILLE, CITY O	GWINNETT	4-16-82	8204	1	< 2			
305304993	2292	SWAINSBORO, CITY OF	EMANUEL	4-21-82	8204	6	< 4			
301100579	2293	B&G GREEN HILL S/D	BIBB	4-22-82	8204	1	< 2			

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X - Insufficient Sample for Analysis

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8205

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
304004041	2294	CORDELE	CRISP	3-11-82	8205	1	< 4			
309409298	2295	MARSHALLVILLE	MACON	4-12-82	8205	3	8 + 2	4.7	3.0	
304304185	2296	CLIMAX, CITY OF	DECATUR	4-15-82	8205	1	< 4			
312911490	2297	ANDERSONVILLE	SUMTER	3-16-82	8205	1	2 + 2			
308107960	2298	STAPLETON, CITY OF	JEFFERSON	4-28-82	8205	1	2 + 2			
306706635	2299	DULUTH, CITY OF	GWINNETT	4-23-82	8205	1	< 3			
401439216	2300	FELLOWSHIP HOME	BROOKS	4 -8-82	8205	1	< 4			
306005970	2301	NORTH FULTON COUNTY	FULTON	4-30-82	8205	1	< 3			
306706680	2302	NORCROSS, CITY OF	GWINNETT	4-23-82	8205	1	< 2			
305605155	2303	FAYETTE CO.	FAYETTE	5 -4-82	8205	1	< 3			
305104865	2304	LAKE SIDES FARM S/D	EFFINGHAM	5 -6-82	8205	1	< 3			
408914228	2305	LAKE SIDE TP	LIBERTY	5 -6-82	8205	1	< 3			
414823905	2306	SMITTY'S MHP	WARE	8-24-81	8205	2	4 + 3	3.6	< 1.0	
307807780	2307	COMMERCE, CITY OF	JACKSON	4-23-82	8205	1	< 3			
308107988	2308	WRENS, CITY OF	JEFFERSON	5 -6-82	8205	6	< 2			
401101463	2309	MACON TP	BIBB	5 -6-82	8205	1	< 3			
315813638	2310	IVEY, CITY OF	WILKINSON	5 -5-82	8205	1	< 3			
300125298	2311	LAKE TARA MHP	APPLING	5 -5-82	8205	4	< 4			
308107988	2312	WRENS, CITY OF	JEFFERSON	5 -6-82	8205	1	< 3			
307607528	2313	CENTERVILLE, CITY OF	HOUSTON	5-10-82	8205	1	3 + 1			
301601036	2314	STATESBORO, CITY OF	BULLOCH	5-12-82	8205	3	< 4			
315313369	2315	ALAMO, CITY OF	WHEELER	5-13-82	8205	4	29 + 4	22.0	< 1.0	
401501984	2316	GARDNER ESTATES SD	BRYAN	5 -6-82	8205	1	< 4			
314612762	2317	KENSINGTON WATER AU	WALKER	5 -4-82	8205	4	< 4			
301100649	2318	PINE ACRES MH COURT	BIBB	5 -6-82	8205	1	< 3			
415825056	2319	BLACK CAT WATERWORKS	WILKINSON	5 -5-82	8205	1	< 3			
305405054	2320	HAGAN, CITY OF	EVANS	5 -5-82	8205	1	< 2			
305405036	2321	CLAXTON, CITY OF	EVANS	5 -5-82	8205	1	< 2			
301500948	2322	BLACK CREEK FARMS W	BRYAN	5 -6-82	8205	1	< 2			
308908622	2323	HINESVILLE, CITY OF	LIBERTY	5 -6-82	8205	1	< 2			
300100017	2324	BAXLEY, CITY OF	APPLING	5-12-82	8205	1	2 + 2			
315813629	2325	IRWINGTON, WELL#2	WILKINSON	5-12-82	8205	4	3 + 1			
303403317	2326	AMERCOSE, CITY OF	COFFEE	5-11-82	8205	1	< 2			
000000000	2327	COWETA CO PROPOSE WS		5-19-82	8205	4	< 1			
308107951	2328	LOUISVILLE, CITY OF	JEFFERSON	5 -4-82	8205	4	< 1			
306706705	2329	SUGAR HILL, CITY OF	GWINNETT	4-23-82	8205	1	< 2			
307307280	2330	HARTWELL, CITY OF	HART	5 -7-82	8205	1	< 2			
308908686	2331	ISLE OF WIGHT	LIBERTY	5-13-82	8205	1	< 2			
315813629	2332	IRWINGTON, HWY 57	WILKINSON	5-12-82	8205	4	4 + 1	0.6		
308908701	2333	LAKE GEORGE	LIBERTY	5-13-82	8205	1	< 2			
400100069	2334	BASS SD	APPLING	5-12-82	8205	1	2 + 2			
307607591	2335	WARNER ROBBINS, CITY	HOUSTON	5-17-82	8205	5	1 + 1			
306706653	2336	GWINNETT CO.	GWINNETT	5 -7-82	8205	1	< 2			
406309934	2337	STERLING MHP	GLYNN	5-19-82	8205	1	< 4			
315613528	2338	ABBEVILLE	WILCOX	5-20-82	8205	1	< 3			
309809533	2339	SAPELO GARDENS	MCINTOSH	5-18-82	8205	1	< 4			
308208012	2340	MILLEN, CITY OF	JENKINS	5-12-82	8205	1	< 3			
308208012	2341	MILLEN, CITY OF	JENKINS	5-12-82	8205	0	< 3			
315613537	2342	PINEVIEW	WILCOX	5-20-82	8205	1	< 3			
412921265	2343	KOINONIA FARMS	SUMTER	4-20-82	8205	1	< 3			

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THE COMPACT

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
412921265	2344	KOINONIA FARMS	SUMTER	4-20-82	8205	1	< 3			
309609450	2345	BUENA VISTA, CITY OF	MARION	4-21-82	8205	3	3 + 1			
305605155	2346	FAYETTE CO. W. SYS.	FAYETTE	5-18-82	8205	4	< 2			
000000000	2347	SCENIC SHORES ADD.		5-18-82	8205	4	6 + 3	0.6	1.4	
000000000	2348	SCENIC SHORES ADD.		5-21-82	8205	4	4 + 3	0.1		
313211643	2349	COLLINS, CITY OF	TATTNAIL	5-17-82	8205	4	< 4			
304604344	2350	VIENNA, CITY OF	DOOLY	5-19-82	8205	4	< 4			
305905776	2351	CANON, CITY OF	FRANKLIN	5-13-82	8205	4	< 3			
300500149	2352	MILLEDGEVILLE	BALDWIN	4 -9-82	8205	1	< 2			
305905800	2353	LAVONIA	FRANKLIN	4 -2-82	8205	1	< 2			
300800317	2354	KINGSTON, CITY OF	BARTOW	4-30-82	8205	1	< 4			
400800828	2355	EDWARD'S MHP	BARTOW	4-29-82	8205	1	< 4			
300816800	2356	WOODSONG MHP	BARTOW	4-29-82	8205	1	< 4			
306806872	2357	HABERSHAM MILLS	HABERSHAM	5-11-82	8205	1	< 2			
302301807	2358	RINGGOLD W. SYS.	CATOOSA	4-28-82	8205	1	< 3			
300500194	2359	CENTRAL STATE	BALDWIN	4-29-82	8205	1	< 2			
300800335	2360	HICKORY LOG SCHOOL	BARTOW	4-22-82	8205	1	< 3			
311410462	2361	ZEBULON	PIKE	5 -7-82	8205	1	< 2			
400800846	2362	HIDEAWAY MHP	BARTOW	4-29-82	8205	1	3 + 2	< 0.1		
300813838	2363	FRIEND L. EST. MHP.	BARTOW	4-22-82	8205	1	< 4			
311910616	2364	CLAYTON	RAEUN	5 -4-82	8205	1	< 2			
314913155	2365	WARRENTON	WARREN	5-12-82	8205	1	< 2			
305605173	2366	FAYETTEVILLE W. SYS.	FAYETTE	4-22-82	8205	1	< 3			
314117577	2367	PINE COVE WEST	TROUP	5-21-82	8205	4	< 4			

July Table 21
RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8206

Incomplete

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
000000000	2368	WARWICK, CITY		5-24-82	8206	4	< 4			
309209249	2369	LOWNDES CO CORR INS	LOWNDES	4-22-82	8206	1	< 4			
000000000	2370	SHENANDOAH		5-26-82	8206	1	< 2			
315013191	2371	OONEE, CITY	WASHINGTON	5-21-82	8206	1	4 + 2	0.3		
306406476	2372	FAIRMOUNT, CITY	GORDON	5-27-82	8206	1	< 2			
315513488	2373	DALTON, CITY	WHITFIELD	5-27-82	8206	1	< 3			
415251150	2374	PINE NEEDLE LN TP	WEBSTER	4-22-82	8206	1	< 4			
000000000	2375	NEWMAN		6 -1-82	8206	0	< 3			
301723514	2376	RIVERSIDE MHP	BURKE	5-26-82	8206	4	< 4			
304604344	2377	VIENNA, CITY	DOOLY	6 -3-82	8206	4	< 3			
308308073	2378	KITE, CITY	JOHNSON	6 -1-82	8206	4	6 + 3	< 0.1		
315813629	2379	IRWINTON, TOWN	WILKINSON	6 -3-82	8206	4	3 + 1			
309108799	2380	LUDOWICI, CITY	LONG	6 -2-82	8206	1	< 3			
308708239	2381	CADWELL, CITY	LAURENS	6 -2-82	8206	1	< 4			
309509383	2382	COLEBERT, CITY	MADISON	6 -4-82	8206	4	3 + 1			
303603649	2383	GROVETOWN, CITY	COLUMBIA	6 -6-82	8206	4	4 + 1	0.6		
308924947	2384	GUY WELLS MHP	LIBERTY	6-10-82	8206	4	2 + 1			
315813629	2385	IRWINTON, CITY #2	WILKINSON	6-10-82	8206	6	< 3			
413629313	2386	SHADY RST MHP	THOMAS	5-20-82	8206	1	3 + 2	1.3		
302501935	2387	PORT WENI WORTH, CITY	CHATHAM	6 -8-82	8206	1	2 + 2			
315913714	2388	WARWICK, CITY	WORTH	5-25-82	8206	1	< 3			
401502002	2389	KEN'S MHP	ERYAN	6 -7-82	8206	1	< 3			
315913680	2390	POULAN, CITY	WORTH	4-21-82	8206	1	4 + 2	1.9		
313311695	2391	BUTLER, CITY	TAYLOR	5-10-82	8206	1	2 + 1			
313617241	2392	ROSE CITY	THOMAS	5-20-82	8206	3	4 + 2	0.8		
413722054	2393	VEHZEY TP	TIFT	5 -6-82	8206	1	3 + 2	0.6		
306306248	2394	YOUTH ESTATES	GLYNN	6-14-82	8206	1	< 4			
304304158	2395	ATTAPULGAS, CITY	DECATUR	5-18-82	8206	3	11 + 2	7.5	< 1.0	
302501926	2396	POOLER, CITY	CHATHAM	6 -9-82	8206	1	< 3			
401502057	2397	HOLLY TP	ERYAN	6 -7-82	8206	1	< 3			
302502008	2398	SAVANNAH ST COLLEGE	CHATHAM	6 -8-82	8206	1	< 3			
302502196	2399	GRAY'S SD	CHATHAM	6 -8-82	8206	1	< 3			
401534209	2400	SHUMAN TP	ERYAN	6 -7-82	8206	1	< 3			
311210389	2401	BIG CANOE WS	PICKENS	6-21-82	8206	4	< 3			
302802887	2402	NOONDAY VALLEY MH	CHEROKEE	6-16-82	8206	4	< 2			
308708275	2403	EAST DUBLIN, CITY	LAURENS	6-14-82	8206	4	< 3			
401602364	2404	LAKE SIDE EST SD	BULLOCH	6-15-82	8206	1	< 2			
313211689	2405	GEORGIA ST PRISON	TATNAIL	6-16-82	8206	1	< 2			
301620581	2406	WINDFIELD SD	BULLOCH	6-15-82	8206	1	< 2			
301623775	2407	LEE'S RIVERSIDE MHP	BULLOCH	6-15-82	8206	1	< 2			
301623401	2408	FOREST HILLS SD	BULLOCH	6-15-82	8206	1	< 3			
312911481	2409	AMERICUS, CITY	SUMTER	6-22-82	8206	1	< 2			
301619844	2410	TANKERSLEY SD	BULLOCH	6-15-82	8206	1	< 3			
309409289	2411	IDEAL, CITY	MACON	6-25-82	8206	1	< 2			
312911524	2412	PLAINS, CITY	SUMTER	6-24-82	8206	1	3 + 1			
302514386	2413	GEORGETOWN	CHATHAM	6-16-82	8206	1	< 3			
415124258	2414	DRIFTWOOD MHP	WAYNE	6-23-82	8206	1	< 3			
305825467	2415	BAY COLONY SD #1	FORSYTH	6-23-82	8206	4	< 2			
312110765	2416	RICHMOND CO WS #105	RICHMOND	6-23-82	8206	4	< 2			
312107765	2417	RICHMOND CO WS #106	RICHMOND	6-23-82	8206	4	< 2			

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July Table 21
RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8206

Incomplete

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
305825467	2418 BAY COLONY SD #2		FORSYTH	6-23-82	8206	4	< 2			

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July Table 21
RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8207

Incomplete

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
302522750	2470	FOSS MHP	CHATHAM	6-30-82	8207	1	< 4			
308708248	2471	DEXTER, CITY OF	LAURENS	7 -8-82	8207	1	< 4			
313721577	2472	SUBURBAN MHP	TIFT	6-14-82	8207	1	8 + 3	7.8		
402504126	2473	HEATHCOTE FARMS	CHATHAM	6-30-82	8207	1	< 4			
313712128	2474	SELPH TP	TIFT	6 -1-82	8207	1	< 4			
313511839	2475	FRONWOOD, CITY OF	TERRELL	6 -1-82	8207	1	< 4			
307607564	2476	HAYNEVILLE-HOUSTON C	HOUSTON	6-30-82	8207	1	< 3			
307023106	2477	WOODLAND VALLEY SD	HANCOCK	6-28-82	8207	5	3 + 3			
313611924	2478	OCHLOCKNEE, TOWN	THOMAS	6-23-82	8207	1	< 4			
313716184	2479	PEEBLE BROOK MEADOWS	TIFT	6-21-82	8207	1	< 4			
310109730	2480	SALE CITY WATER SUP	MITCHELL	6-22-82	8207	1	< 4			
309209230	2481	CA SHERIFF'S BOYS R	LOWNDES	7-13-82	8207	1	< 4			
301500993	2482	LAKE LORRAINE SD	BRYAN	7 -6-82	8207	1	2 + 2			
402542719	2483	WILMINGTON ISLAND	CHATHAM	7 -7-82	8207	1	< 4			
302502266	2484	NORTON'S MHP	CHATHAM	6-30-82	8207	1	< 4			
308708293	2485	RENTZ, CITY	LAURENS	7-15-82	8207	1	< 4			
302518388	2486	RIVERS BEND SD	CHATHAM	7-15-82	8207	1	< 3			
301619589	2487	BULLOCH CORR INST	BULLOCH	7-14-82	8207	1	< 4			
302502239	2488	RUNAWAY POINT SD	CHATHAM	7-15-82	8207	1	< 4			
303603630	2489	COLUMBIA CO WS	COLUMBIA	7 -2-82	8207	1	< 3			
302502451	2490	THE BLUFF SD	CHATHAM	7-14-82	8207	1	< 4			
302502220	2491	HOLIDAY MHP	CHATHAM	6-30-82	8207	1	< 4			
301601160	2492	CLARKS MHP	BULLOCH	7-13-82	8207	1	< 4			
302502497	2493	WYMBERLY SD	CHATHAM	7-15-82	8207	1	< 4			
404006567	2494	DENMAR TP	CRISP	6 -7-82	8207	1	< 4			
307607546	2495	HOUSTON CO, ELBERTA	HOUSTON	7 -1-82	8207	1	< 2			
313717743	2496	PINE HILL MHP	TIFT	6-28-82	8207	3	21 + 4	25.3	1.6	
309909600	2497	MANCHESTER, CITY	MERIWETHER	7-14-82	8207	4	< 3			
313711994	2498	OMEGA, CITY	TIFT	6-22-82	8207	1	< 4			
302518537	2499	BETHESDA HOME-BOYS	CHATHAM	7-14-82	8207	1	< 4			
401602285	2500	COLONIAL HEIGHTS SD	BULLOCH	7-13-82	8207	1	< 3			
401602504	2501	FRINK'S MHP	BULLOCH	7-13-82	8207	1	< 4			
307207247	2502	WAVERLY HALL	HARRIS	7-12-82	8207	1	< 4			
301000475	2503	ENIGMA, CITY	BERRIEN	7 -1-82	8207	3	3 + 2	1.7		
NO ID	2504	WINDING WAY ESTATES		7-14-82	8207	4	< 3			
301615569	2505	LAKE COLLINS EST S/D	BULLOCH	7-13-82	8207	1	< 4			
302502053	2506	AZALEA MHP	CHATHAM	6-30-82	8207	1	< 3			
311910670	2507	KINGWOOD COMMUNITY	RApun	6-25-82	8207	1	2 + 2			
312911551	2508	SO. GA. TECH/VOC SCH	SUMTER	7 -9-82	8207	1	< 3			
302522565	2509	CLEN OF ROBIN HOOD	CHATHAM	7-15-82	8207	1	< 3			
315613555	2510	ROCHELLE, CITY	WILCOX	7-12-82	8207	1	< 4			
307207238	2511	SHILOK	HARRIS	7-12-82	8207	1	< 3			
309208981	2512	KELLY PINES MHP	LOWNDES	7 -1-82	8207	1	< 3			
304023329	2513	MEADOW PARK	CRISP	7-15-82	8207	4	< 3			
NO ID	2514	BELL VIEW SHORES		7-13-82	8207	4	2 + 2			
000000000	2515	BISHOP, CITY		7-13-82	8207	4	< 3			
309709466	2516	DEARING, TOWN	MCDUFFIE	7-19-82	8207	4		0.2		
NO ID	2517	SUGAR BEND S/D		7-13-82	8207	4	< 3			
000000000	2518	BISHOP, CITY		7-13-82	8207	4	2 + 2			
NO ID	2519	YANAK PARK INC		7-21-82	8207	4	< 4			

NOTES: TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER
; COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8207

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
301315294	2419	DEERWOOD SD	BRANTLEY	6-22-82	8207	1	< 3			
315113277	2420	ODUM, CITY	WAYNE	6-23-82	8207	1	2 + 2			
315118458	2421	ARROWHEAD VILLAGE MH	WAYNE	6-23-82	8207	1	< 2			
315913671	2422	ISABELLA WATER SYS	WORTH	5-15-82	8207	1	< 3			
307316134	2423	BOWERSVILLE, CITY	HART	4-12-82	8207	4	< 2			
415129916	2424	REST A WHILE NH	WAYNE	5-25-82	8207	4	< 3			
305816708	2426	BARBERRY HILLS ASSN	FORSYTH	7 -1-82	8207	1	< 2			
306806757	2427	ALTO, CITY	HABERSHAM	5-19-82	8207	1	< 2			
310420042	2428	SOURCE OF LIGHT MISS	MORGAN	6-10-82	8207	1	< 2			
313624205	2429	SUGARWOOD ESTATES SD	THOMAS	5 -3-82	8207	1	< 3			
305805548	2430	LAKE HARBOR SHORE SD	FORSYTH	7 -1-82	8207	1	< 2			
314712866	2431	JERSEY, CITY	WALTON	5-20-82	8207	3	296 + 8	6.1	< 1.0	
302902990	2432	SANDY SPRINGS SD	CLARKE	6-30-82	8207	1	< 2			
402938707	2433	SAND CITY MHP	CLARKE	6-30-82	8207	1	< 2			
308208021	2434	PERKINS WATER AUTH	JENKINS	6-22-82	8207	1	< 3			
309509383	2435	COLBERT, CITY	MADISON	5-25-82	8207	1	3 + 1			
410735114	2436	PINE VALLEY MHP	NEWTON	6-17-82	8207	1	1 + 1			
410730164	2437	JAMESTOWN SD	NEWTON	6-17-82	8207	1	1 + 1			
309516196	2438	TRANQUILITY FOREST	MADISON	5-25-82	8207	1	< 2			
405236534	2439	NORTHWOOD HILLS SD	ELBERT	5-25-82	8207	1	2 + 2			
402933410	2440	MINERAL SPRINGS SD	CLARKE	6-30-82	8207	1	2 + 1			
314612753	2441	CHICKANAUGA, CITY	WALKER	6-15-82	8207	1	< 3			
305916422	2442	BRITTANY HARBOR #2	FRANKLIN	6-28-82	8207	3	52 + 4	13.4	1.4	
305916501	2443	BRITTANY HARBOR WEST	FRANKLIN	6-28-82	8207	3	4 + 2	1.1		
304004078	2444	CRISP COUNTY JAIL	CRISP	5-13-82	8207	1	< 3			
313311701	2445	REYNOLDS	TAYLOR	5 -3-82	8207	1	< 2			
309125488	2446	TWIN OAKS MHP-WELL#2	LONG	6-28-82	8207	4	< 3			
309125488	2447	TWIN OAKS MHP, WELL#1	LONG	6-28-82	8207	4	< 3			
308708275	2448	EAST DUBLIN, CITY	LAURENS	7 -6-82	8207	4	< 3			
301500902	2449	RICHMOND HILL, CITY	BRYAN	7 -6-82	8207	4	< 3			
315013182	2450	HARRISON, CITY	WASHINGTON	7 -9-82	8207	1	< 3			
401301801	2451	FORT MCINTOSH SD	BRANTLEY	7 -6-82	8207	1	< 3			
307617387	2452	HOUSTON CO WS, FRAGIN	HOUSTON	6-30-82	8207	1	3 + 1			
402533333	2453	RIVERSIDE EST SD	CHATHAM	6-30-82	8207	1	< 3			
301000466	2454	ALAPAHA, CITY	BERRIEN	7 -1-82	8207	3	9 + 3	8.5	< 1.0	
308714616	2455	WOODLAND TRAILS M E	LAURENS	7 -7-82	8207	1	< 4			
302502169	2456	FORT ARCYLE	CHATHAM	6-30-82	8207	1	< 4			
307617387	2457	QUAIL RUN-HOUSTON CO	HOUSTON	6-30-82	8207	1	< 3			
315113286	2458	SCREVEN, CITY	WAYNE	7 -8-82	8207	1	< 4			
402533713	2459	SEABREEZE MHP	CHATHAM	6-30-82	8207	1	< 4			
302502336	2460	PLANTATION INN EST	CHATHAM	6-30-82	8207	1	< 4			
302521757	2461	LAKE SIDE MHP	CHATHAM	6-30-82	8207	1	< 3			
306806890	2462	GEORGIA IND INST	HABERSHAM	6-25-82	8207	1	< 2			
313712164	2463	TIFT CO WS	TIFT	6-21-82	8207	3	6 + 3	3.2		
302523337	2464	BELLAIRE VILLAGE	CHATHAM	6-30-82	8207	1	< 4			
307607573	2465	HENDERSON-HOUSTON CO	HOUSTON	6-30-82	8207	1	< 4			
402543332	2466	DEAN FOREST RD TP	CHATHAM	6-30-82	8207	1	3 + 2	1.1		
311110328	2467	FRYON, CITY OF	PEACH	6-30-82	8207	1	< 3			
315713598	2468	WASHINGTON, CITY OF	WILKES	7 -1-82	8207	1	< 3			
310109712	2469	HINSONTON, WS	MITCHELL	6-22-82	8207	1	5 + 2	2.3		

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: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

July Table 21
RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8207

Incomplete

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAP DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
413722036	2520	TOWN&COUNTRY ME	TIFT	6-28-82	8207	1	< 5			
306005952	2521	EAST POINT	FULTON	5-26-82	8207	1	< 3			
401602434	2522	THOMAS VILLAGE MHP	BULLOCH	7-13-82	8207	1	< 4			
409214781	2523	BARKCC VILLAGE S/D	LOWNDES	7-12-82	8207	1	< 1			
410717343	2524	ALCOVY MHP	NEWTON	7-23-82	8207	1	< 3			
309221845	2525	BENNETTS TP #1	LOWNDES	7-12-82	8207	1	< 4			
309209045	2526	PINE BREEZE TP	LOWNDES	7-13-82	8207	1	3 + 3	2.2		
300800308	2527	CARTERVILLE	BARTOW	6-23-82	8207	1	< 3			
304814213	2528	ATLANTA VIEW TRAIL R	DOUGLAS	7-21-82	8207	1	< 3			
401602300	2529	CYPRESS LAKE MHP	BULLOCH	7-13-82	8207	1	< 4			
301713968	2530	NAMIE JOE HARRISONSD	BURKE	7-14-82	8207	1	< 4			
315413384	2531	CLEVELAND WS	WHITE	7 -8-82	8207	1	< 3			
309209081	2532	SHADY GROVE TP	LOWNDES	7-12-82	8207	1	< 4			
309208802	2533	NAHIRA, CITY	LOWNDES	7-13-82	8207	1	< 3			
306506507	2534	WHIGHAM, CITY	GRADY	6-30-82	8207	1	4 + 3			
309223179	2535	HIDDEN HILLS SD	LOWNDES	7-29-82	8207	4	< 4			
308715886	2536	HOLLY HILLS SD	LAURENS	7-28-82	8207	4	< 4			
302514429	2537	OLIVER PINES SD	CHATHAM	6-30-82	8207	1	< 4			
302120899	2538	DANIEL VILLAGE MHP	CANDLER	7-14-82	8207	1	< 4			
401636479	2539	WOODLAWN MHP	BULLOCH	7-13-82	8207	1	< 3			
310509932	2540	CHATSWORTH, CITY OF	MURRAY	6-29-82	8207	1	< 3			
405832400	2541	BRIDGEWATER SD	FORESYTH	7-20-82	8207	1	< 3			
309609450	2542	BUENA VISTA, PLANT	MARION	7-20-82	8207	3	4 + 2			
314112299	2543	HOGANSVILLE	TROUP	6-30-82	8207	1	< 2			
301617413	2544	LANIER MHP	BULLOCH	7-13-82	8207	1	< 4			
310717391	2545	MEADOWBROOK MHP	NEWTON	7-23-82	8207	1	< 3			
414630673	2546	REO SD	WALKER	7 -7-82	8207	1	< 4			
315013225	2547	TENNILLE, CITY	WASHINGTON	7 -8-82	8207	4	< 3			
307607546	2548	HOUSTON CO, DUNBAR	HOUSTON	6-30-82	8207	1	< 3			
401602267	2549	JANE BEAVER SD	FULLOCH	7-12-82	8207	1	< 3			
312922474	2550	LAKE SHORE MARINE	SUMTER	7-13-82	8207	1	< 4			
309609450	2551	BUENA VISTA WELL #6	MARION	7-20-82	8207	5	2 + 2			
315813610	2552	GORDON, CITY, NE	WILKINSON	7-27-82	8207	6	4 + 1	0.5	3.2	
314212436	2553	REBECCA, TOWN	TURNER	7-19-82	8207	1	< 4			
315813610	2554	GORDON, CITY, SW	WILKINSON	7-27-82	8207	6	7 + 2	1.8	6.8	
409014583	2555	BLACKJACK WS	LINCOLN	7-20-82	8207	3				
311724561	2556	SUGAR CREEK SD	PUTNAM	7-22-82	8207	3				
315813610	2557	GORDON, CITY, WELL #3	WILKINSON	7-27-82	8207	6	2 + 2			
314212427	2558	ASHEBURN, CITY	TURNER	7-21-82	8207	1	< 4			
315813610	2559	GORDON, CITY, NW	WILKINSON	7-27-82	8207	6	4 + 2		9.0	
302522556	2560	SEA GATE SD	CHATHAM	7-15-82	8207	1	< 4			
308708424	2561	CONDOR ACRES MHP	LAURENS	7 -7-82	8207	1	< 3			
312210984	2562	?	ROCKDALE	6 -2-82	8207	1	< 2			
302001541	2563	ST. MARYS, CITY	CAMDEN	7 -8-82	8207	1				
315813610	2564	GORDON, CITY, WELL #1	WILKINSON	7-27-82	8207	6	9 + 2			
315813610	2565	GORDON, CITY, COLLEGE	WILKINSON	7-27-82	8207	6	5 + 2			
307923482	2566	ALCOVY SHORES SD	JASPER	7-21-82	8207	3	12 + 3			
315813610	2567	GORDON, CITY, WELL #2	WILKINSON	7-27-82	8207	6	3 + 1			
310810166	2568	PLEASANT HILL SD	COONKE	7-22-82	8207	1	2 + 2			
406938578	2569	SAILERS MHP	HALL	7 -9-82	8207	1	< 3			

July Table 21
RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8207

Incomplete

ID #	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
408413424	2570	JONES HERES MHP	JONES	7-8-82	8207	1	< 3			
314312488	2571	DANVILLE, CITY	TWIGGS	6-25-82	8207	1	< 4			
311722990	2572	TALL TIMPERS, OAK C	PUTNAM	7-20-82	8207	3	3 + 3			

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: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

TABLE 22

Exposure Rate at Nuclear Facilities
Measured with TLD'S

GEORGIA POWER NUCLEAR PLANT HATCH ... 820409-820722: 104 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0	10.6	4.3	37.3
(+-)	2.3	0.9	8.2
2.0	10.1	4.0	35.5
(+-)	2.4	1.0	8.4
3.0	10.1	4.1	35.5
(+-)	2.6	1.0	9.1
4.0	8.0	3.2	28.0
(+-)	2.3	0.9	8.1
5.0	9.3	3.7	32.6
(+-)	5.6	2.2	19.6
6.0	9.7	3.9	34.0
(+-)	2.2	0.9	7.9
7.0	9.5	3.8	33.4
(+-)	2.4	0.9	8.3
8.0	8.6	3.4	30.0
(+-)	2.4	1.0	8.5
9.0	8.0	3.2	28.2
(+-)	2.5	1.0	8.9
10.0	9.2	3.7	32.2
(+-)	2.4	1.0	8.6
11.0	7.8	3.1	27.3
(+-)	2.3	0.9	7.9
12.0	11.1	4.4	38.9
(+-)	2.6	1.1	9.2
13.0	12.9	5.2	45.3
(+-)	2.5	1.0	8.7 ... <> 95% NORMAL DIST.
14.0	9.8	3.9	34.6
(+-)	2.3	0.9	8.2
15.0	9.0	3.6	31.6
(+-)	2.3	0.9	8.0
16.0	9.4	3.8	33.1
(+-)	2.4	1.0	8.5
17.0	8.4	3.4	29.5
(+-)	2.7	1.1	9.4
18.0	9.4	3.8	33.1

19.0 (+-)	7.9 2.7	3.2 1.1	27.7 9.6
20.0 (+-)	8.7 2.3	3.5 0.9	30.5 8.1
21.0 (+-)	9.7 2.5	3.9 1.0	34.1 8.7
22.0 (+-)	10.2 2.8	4.1 1.1	35.7 10.0
23.0 (+-)	8.0 2.5	3.2 1.0	28.2 8.7
24.0 (+-)	9.3 2.6	3.7 1.1	32.5 9.3
25.0 (+-)	7.8 2.5	3.1 1.0	27.4 8.9
26.0 (+-)	6.8 2.3	2.7 0.9	23.9 8.0
27.0 (+-)	8.5 1.6	3.4 0.6	29.7 5.7
28.0 (+-)	8.2 2.7	3.3 1.1	28.7 9.5
29.0 (+-)	7.3 2.4	2.9 0.9	25.5 8.3
30.0 (+-)	7.8 2.3	3.1 0.9	27.2 8.0
31.0 (+-)	7.4 2.2	2.9 0.9	25.8 7.7
32.0 (+-)	9.0 2.3	3.6 0.9	31.5 8.0
33.0 (+-)	9.7 2.3	3.9 0.9	34.1 8.1
34.0 (+-)	8.4 2.4	3.4 0.9	29.7 8.3
35.0 (+-)	10.4 2.3	4.2 0.9	36.6 8.1
36.0 (+-)	6.3 2.5	2.5 1.0	22.1 8.9
37.0 (+-)	8.4 2.3	3.4 0.9	29.6 8.1
38.0 (+-)	6.1 2.2	2.5 0.9	21.6 7.7
40.0 (+-)	8.1 2.4	3.2 1.0	28.4 8.4

(+-)	2.5	1.0	8.6
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43.0	9.6	3.8	33.6
(+-)	2.3	0.9	8.1

44.0	7.6	3.0	26.6
(+-)	2.3	0.9	8.0

45.0	9.0	3.6	31.6
(+-)	2.6	1.0	9.1

48.0	11.4	4.5	39.8
(+-)	2.6	1.1	9.2

49.0	10.2	4.1	35.8
(+-)	2.4	1.0	8.4

NET. AVG.:	9.0	3.6	31.5
(+-)	2.7	1.1	9.5

STATE BACKGROUND ... 820409-820722: 104 DAYS

TLD#	MR	MICRR/HR	MR/YR
4.0	20.3	8.1	71.2
(+-)	3.2	1.3	11.2
5.0	16.9	6.8	59.3
(+-)	3.9	1.6	13.7
6.0	12.3	4.9	43.2
(+-)	2.5	1.0	8.8
7.0	9.9	4.0	34.7
(+-)	2.3	0.9	8.1
8.0	9.9	4.0	34.7
(+-)	2.4	1.0	8.4
NET. AVG.:	13.9	5.6	48.6
(+-)	9.2	3.7	32.3